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Benner Clean Room



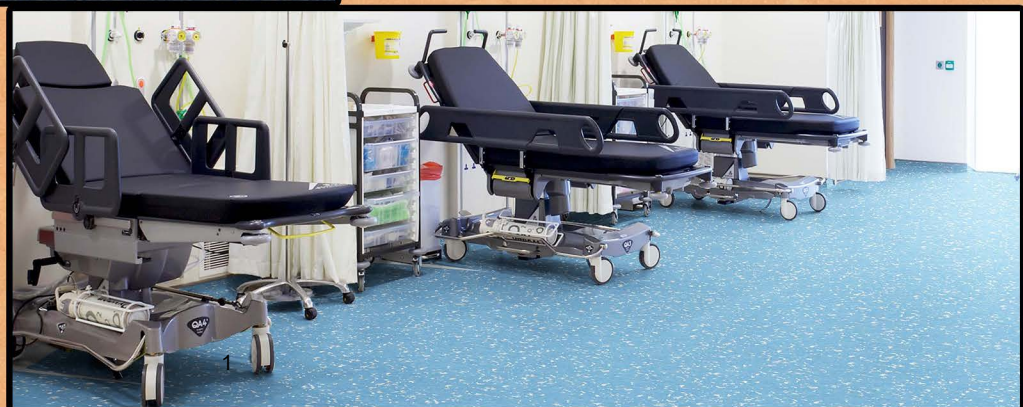
Benner
SEAMLESS



Clean Room



SHEET





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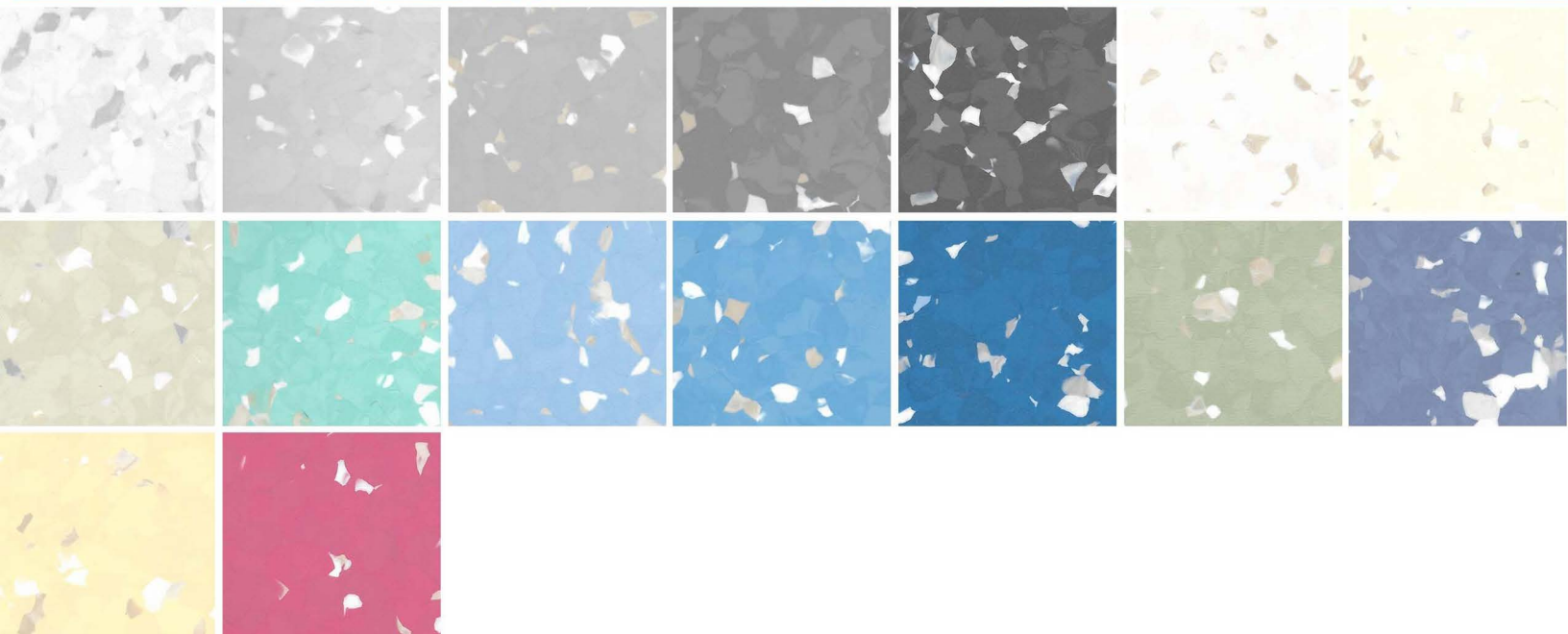
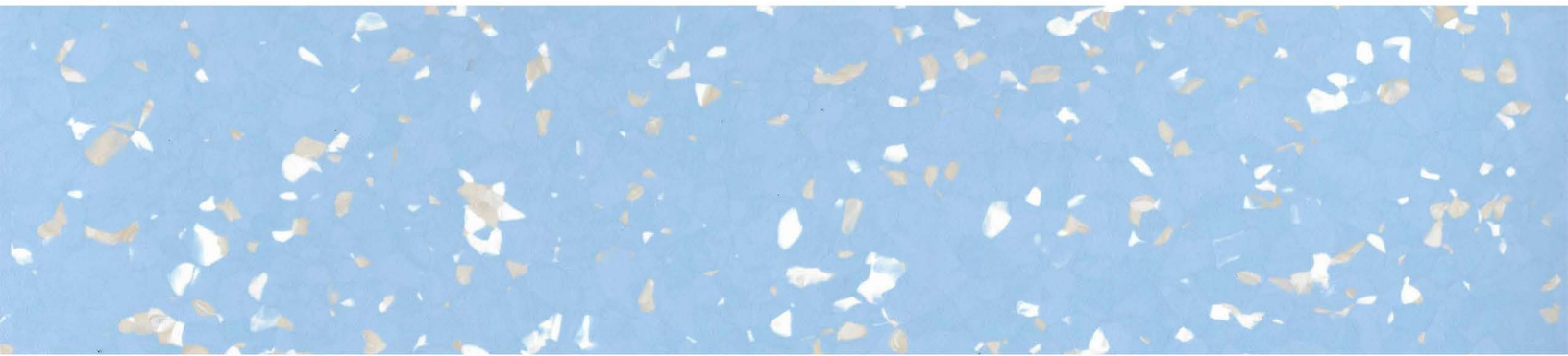
Benner Clean Room - LAY

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Benner Clean Room - LAY





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Benner Clean Room - LAY

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	2.8 kg/m ²	170 Rolls / 20ft Container
Width & Length EN426	114kg/ Roll	6800 sq.m. / 20ft Container
Width: 2.0m, Length: 20m		

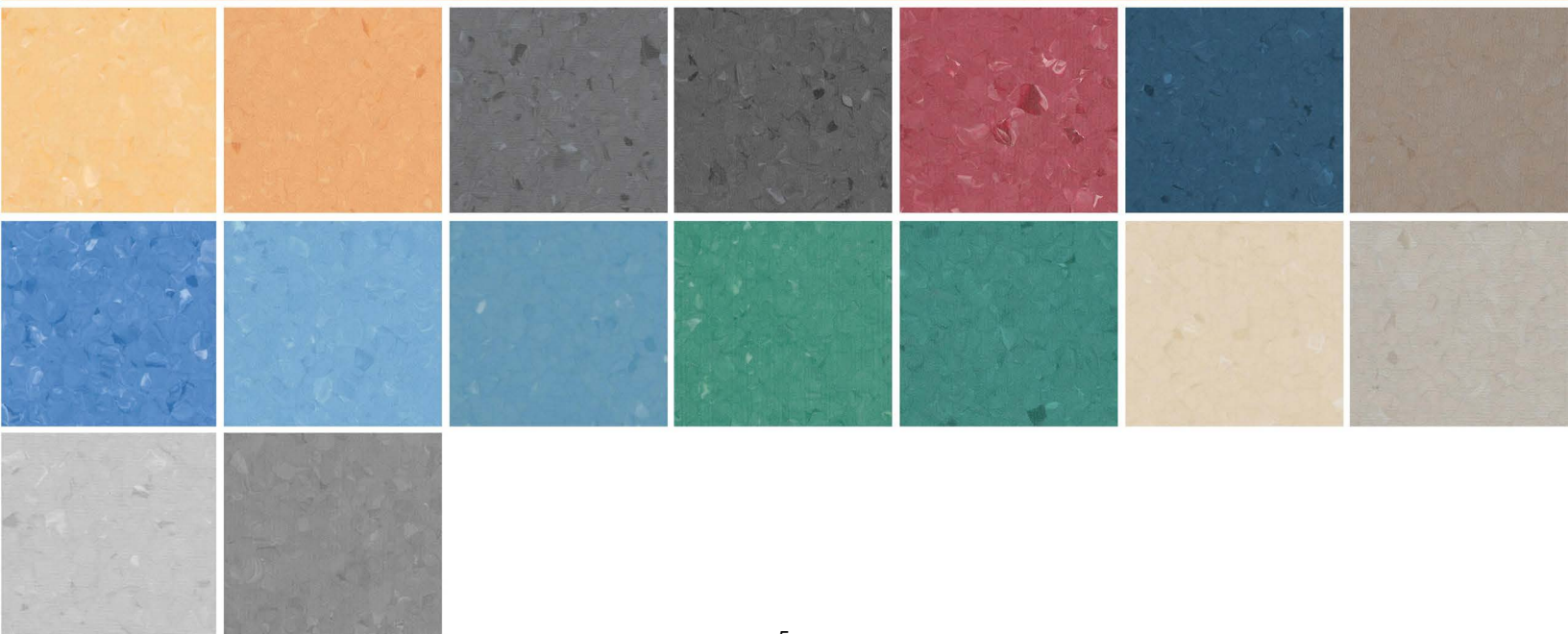
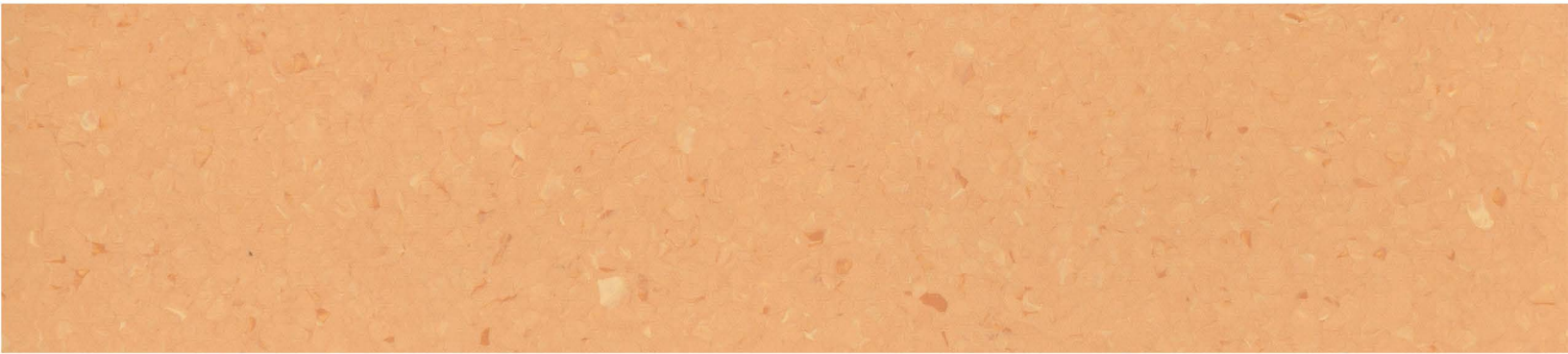
Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group T
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling<2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayerebasidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	
		Staphylococcus Aureus	> 99.9% (Sterilizing rate)
		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤R≤10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV



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Benner Clean Room - ELE





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Benner Clean Room - ELE

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	3.15 kg/m ²	170 Rolls / 20ft Container
Width & Length EN426	126kg/ Roll	6800 sq.m. / 20ft Container
Width: 2.0m, Length: 20m		

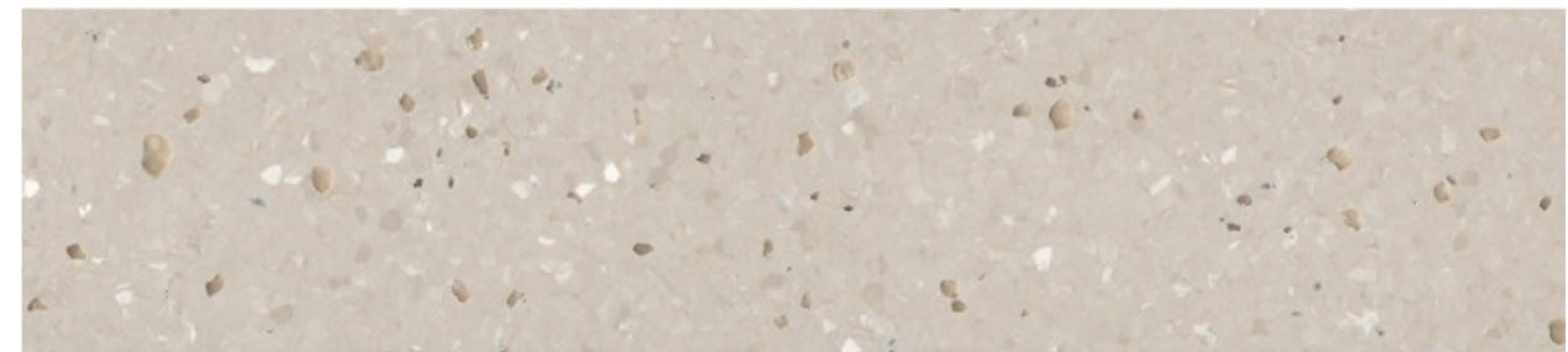
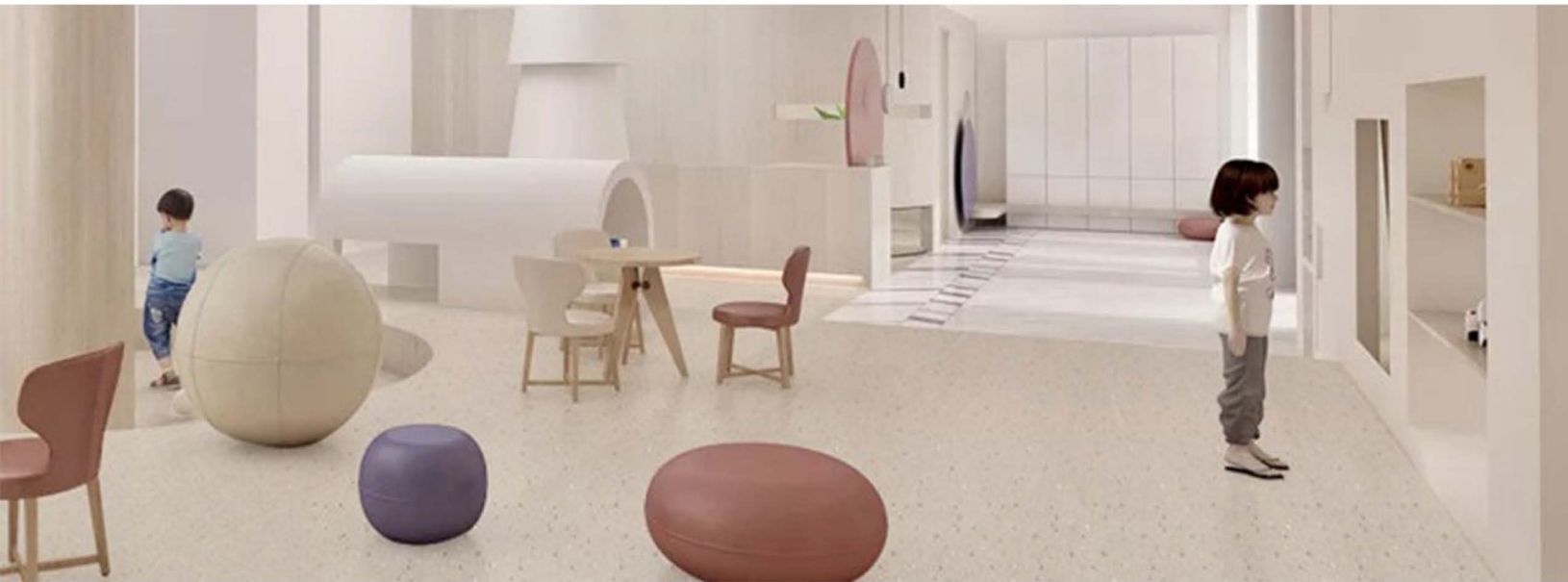
Product Data

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Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group P
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass
Color Fastness	EN ISO 105 – B02	≥ Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass Pass
Indentation Residual	ASTM F970	Load: 125lb	Pass
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
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Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayrebosidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	> 99.9% (Sterilizing rate)
		Staphylococcus Aureus	
		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR



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Benner Clean Room - ALT



56002

56004

56005

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56010

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56013

56014

56015

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Benner Clean Room - ALT

Product Details

Thickness EN428	Weight EN430	Packaging
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Width & Length EN426	126kg/ Roll	6800 sq.m. / 20ft Container
Width: 2.0m, Length: 20m		

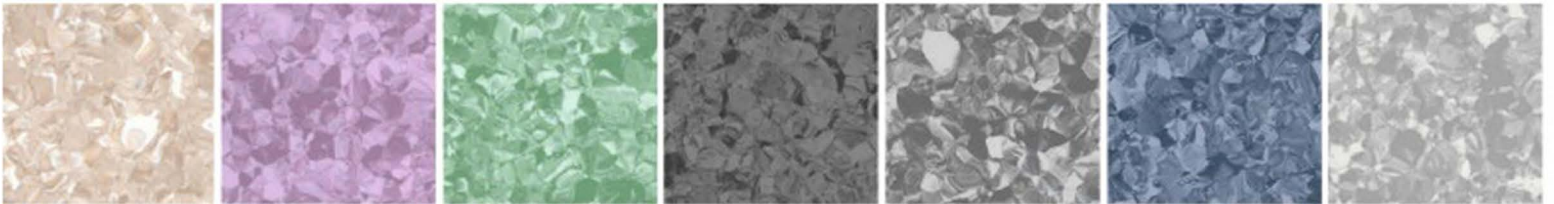
Product Data

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Indentation Residual	ASTM F970	Load: 125lb	Pass
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VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
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		Ayreobasidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	
		Staphylococcus Aureus	> 99.9% (Sterilizing rate)
		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤R≤10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR

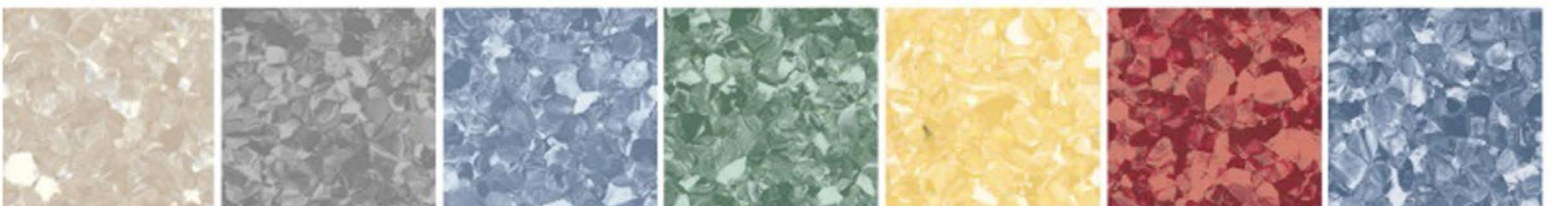


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Benner Clean Room - RACE



005 008 010 012 014 016 026



036 055 067 060 062 065 056



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Benner Clean Room - RACE

Product Details

Thickness EN428	Weight EN430	Packaging
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Width & Length EN426	126kg/ Roll	6800 sq.m. / 20ft Container
Width: 2.0m, Length: 20m		

Product Data

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		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤R≤10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR



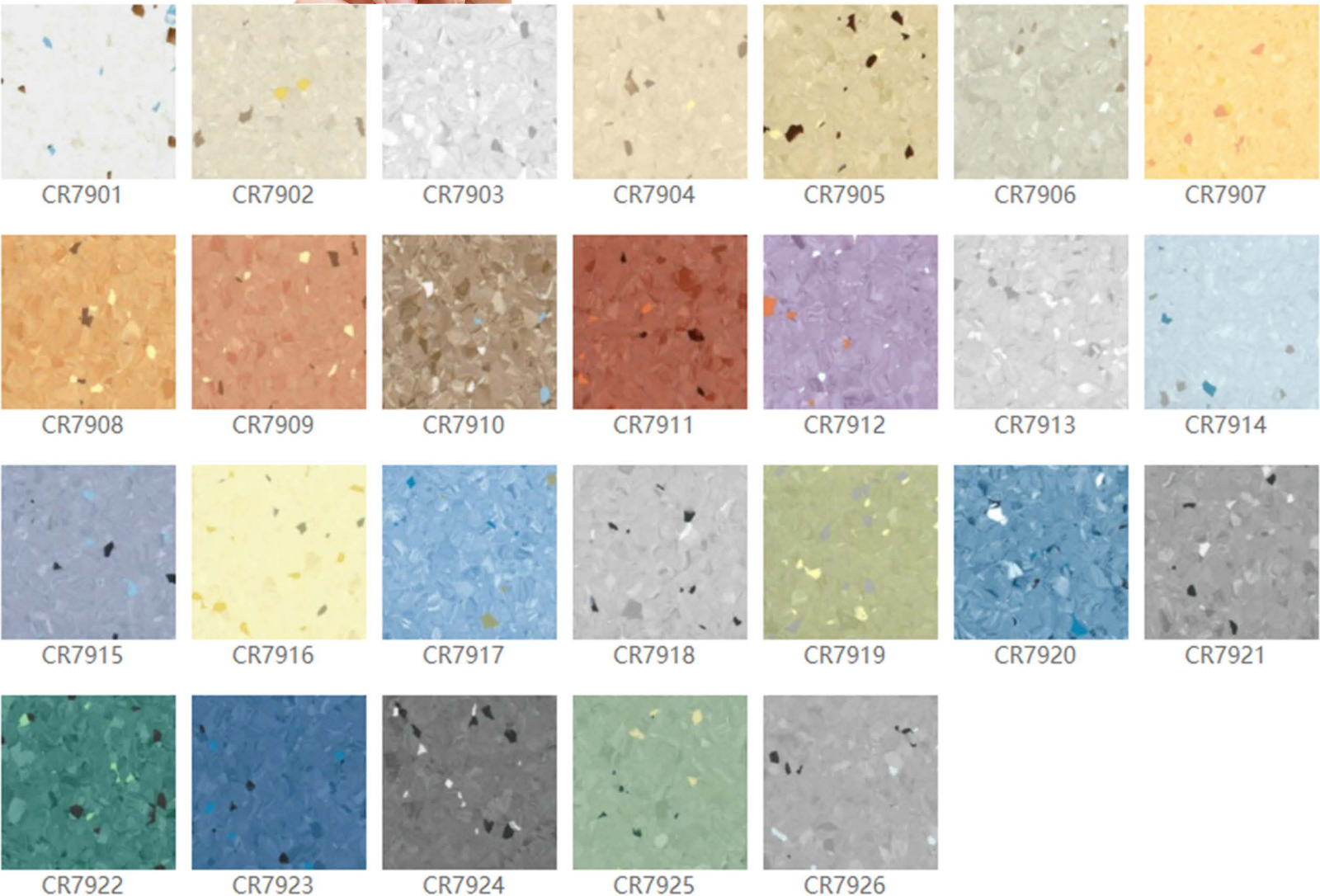
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Benner Clean Room - ALBA

Commercial flooring - Non-directional Homogeneous
(Iodine-resistance)

- T Group abrasion resistance, the best level
- PUR surface treatment, virgin material
- Effective ability against iodine, easy cleaning
- 26 non-directional polychrome colors for freedom designs

CONTACT US





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Benner Clean Room - ALBA



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP



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Benner Clean Room - ALBA

SAFETY DATA SHEET	Issue No:1	Date: 04 March 2016
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room ALBA

PRODUCT TYPE/USE: Vinyl Sheet Flooring
2mm*2m*20m

SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acuduc gases.

HAZARDOUS CONBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USEAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3



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Benner Clean Room - ALBA

SAFETY DATA SHEET	Issue No:1	Date: 24 September 2015
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PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable



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Benner Clean Room - ALBA

Product Details

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Width & Length EN426	114kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

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CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
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		Chaetomium Globosum	
		Trichoderma Virens	> 99.9% (Sterilizing rate)
		Staphylococcus Aureus	
		Klebsiella Pneumoniae	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV



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Benner Clean Room - ALBA

Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ✧ Remove all loose debris.
- ✧ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

About 80% of surface soiling that has to be cleaned off is brought in from outside.

And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



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Benner Clean Room - ALBA

Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous  Surfaces
Bottom



Length : 20 Meters

Ground



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Benner Clean Room - IMA



Commerical Homogeneous Vinyl Sheet Flooring

- > Cleancare™ treatment
- > Dural PUR reinforcement, T abrasion group
- > Virgin and recyclable material
- > DOTP plastisizer
- > 37 stock non-directional colors



RECYCLING

Both flooring material and packing material are recyclable



ENVIRONMENTAL

Industrial sites certufued ISO 14001
Healthy and sustinable materials, no heavy matalas, no solvents, no formaldehyde



CE

European Parliament and European Council have adopted the latest version of the Machinery Directive (2006/42/CE) on 17 May, 2006. This new directive is made according to a new approach; its one of the basic directives on health and safety concern.



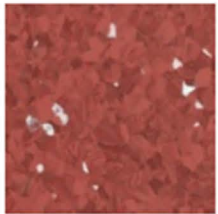
FLOORSCORE

FloorScore is the most recognized indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlayments.



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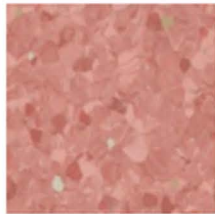
Benner Clean Room - IMA



IMA642



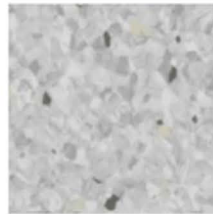
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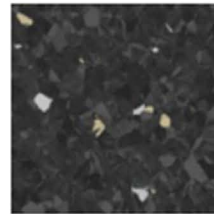
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IMA651



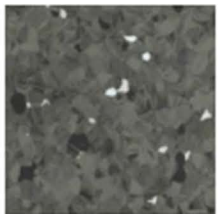
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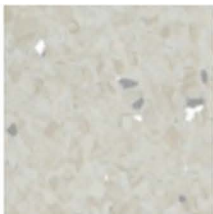
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IMA655



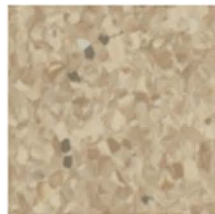
IMA656



IMA657



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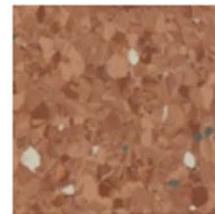
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IMA660



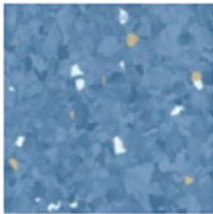
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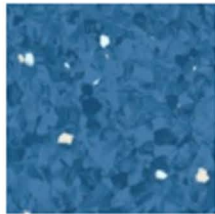
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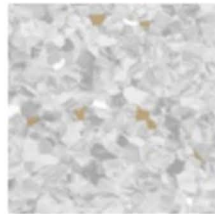
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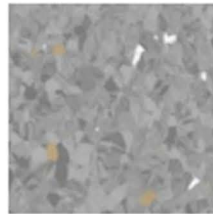
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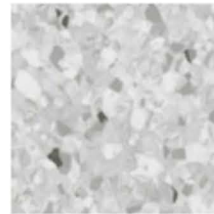
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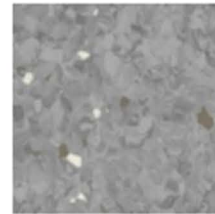
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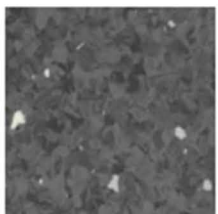
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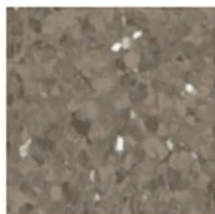
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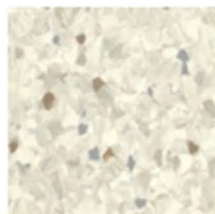
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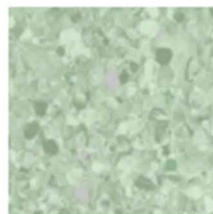
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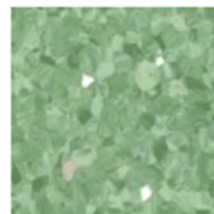
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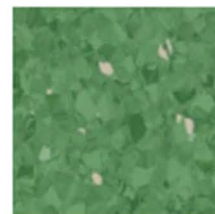
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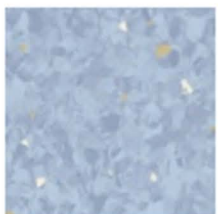
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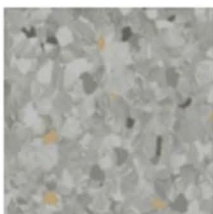
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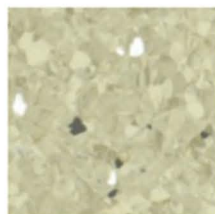
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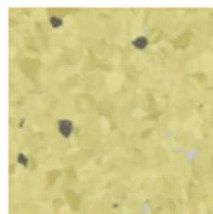
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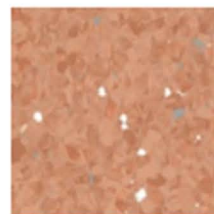
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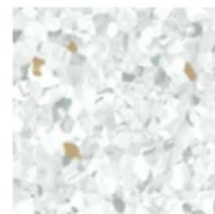
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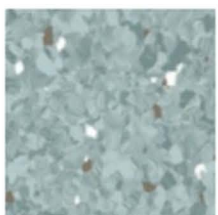
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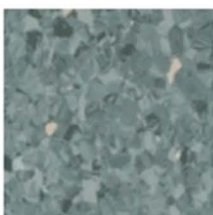
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High-density Homogeneous Layer

CLEANCARE™ Treatment



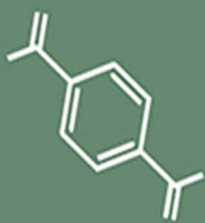
PUR

Treating the floor with a special PUR reinforcement not only improves the excellent wear resistance of the floor but also helps reduce bacteria and the passage of infection. This helps promote a fresh healthy environment.



CLEANCARE™

An hydrophobic surface technique strengthens the chemical resistance performance of flooring, especially iodine and its relevant solution which are frequently used in hospital.



DOTP

DOTP is a kind of environment friendly plasticizer that accepted by international organization. It can be used in the production of injector, pacifier and other products which contact with the skin directly.



HEALTECH™

Customizable function. It is supported by a kind of harmless organic sterilizing agent, can kill hundreds of germs like Staphylococcus aureus, Klebsiella pneumoniae, Pseudomonas aeruginosa etc. This liquid has got the certificate from United States Environmental Protection Agency, superior to Nano-silver.



ECONTROL™

Customizable function. Add anti-static agent during production process ensures this function can achieve medical grade. Control the resistance value between 10^6 to 10^9 , especially suitable for clean rooms, etc.



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Benner Clean Room - IMA

SAFETY DATA SHEET	Issue No:1	Date: 15 SEP 2017
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: **Clean Room IMA**

PRODUCT TYPE/USE: **Homogeneous Vinyl Sheet Flooring
2mm*2m*20m**

SUPPLIER: **Best Benner Building Corp.
Puerto Rico**

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acid gases.

HAZARDOUS COMBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3
NON-HAZARDOUS						

PROTECTIVE EQUIPMENT: None Required

HYGIENIC WORK PRACTICES: Maintain the flooring as recommended by Bomei.



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Benner Clean Room - IMA

SAFETY DATA SHEET	Issue No:1	Date: 15 SEP 2017
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Up to 2m wide rolls of flooring
COLOUR:	Various
ODOUR/TASTE:	Typical - low odour
SOLUBILITY DESCRIPTION:	Not-Applicable
BOILING POINT ('c, interbal):	Not-Applicable
VISCOSITY:	Solid
OTHER PHYSICAL DATA:	VOC data available

10. STABILITY AND REACTIVITY

STABILITY:	Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS:	None
HEALTH WARNINGS:	Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY:	Not-Applicable
TARGET ORGANS:	Not-Applicable
MEDICAL SYMPTOMS:	Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION:	Very low potential for bioaccumulation.
DEGRADABILITY:	Very slowly biodegradable.
ACUTE FISH TOXICITY:	Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:	Landfill in accordance with local regulations.
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14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:	No special requirement.
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15. REGULATORY INFORMATION

LABEL FOR SUPPLY:	No special requirement.
RISK PHRASES:	Not-Applicable
SAFETY PHASES:	Not-Applicable

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.



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Benner Clean Room - IMA

PRODUCT SPECIFICATION

Total Thickness	EN 428	mm	2
Roll Width	EN 426	m	2
Roll Length	EN 426	m	20
Weight	EN 430	g/m ²	2800
Surface Treatment			PUR

CLASSIFICATION

Abrasion Group	EN 660-2	Class	T
Classification (Commercial)	EN 649	Class	34
Classification (Industrial)	EN 649	Class	43
Fire Rating	EN 13501-1:2007	Class	Bfl-s1
Flammability	ASTM E648	Class	I
Slip Resistance	DIN 51130:2004	Class	R9
Formaldehyde Emission	EN 14041	Class	E1
Fungi Resistance	ASTM G21	Class	0

PRODUCT PERFORMANCE

Flexibility	EN 435:1994 Method A	-	No crack
Indentation Residual	EN ISO 24343-1	mm	≈ 0.04
Static Electric Charge	EN 1815	kV	<2
Static Load Limit	ASTM F970	mm	0.034
Static Coefficient of Friction (Dry)	ASTM D2047-11	-	0.37
Static Coefficient of Friction (Wet)	ASTM D2047-11	-	0.39
Color Fastness	EN ISO 105-B02	-	6
Effects of Stain	EN 423	-	Pass
Dimension Stability (X Direction)	EN 434:1994	%	0.16
Dimension Stability (Y Direction)	EN 434:1994	%	0.14
Curling	EN 434:1994	mm	0.06
Toxicity Fumes	BS 6853:1999 Annex B	-	<0.3
Smoke Density	ASTM E662-13A	-	<450
Thermal Conductivity	EN 14041	W/m·K	0.043
Iodine Resistance			Excellent

CUSTOMIZABLE FUNCTION

Electrical Resistance	EN 1081-1998	Ω	10 ⁶ ~10 ⁸
Antimicrobial Activity (Aspergillus Niger)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Penicillium Pinophilum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Aureobasidium Pullulans)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Chaetomium Globosum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Trichoderma Virens)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Staphylococcus Aureus)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Klebsiella Pneumoniae)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Pseudomonas)	ASTM G 21-13	%	>99.9



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Benner Clean Room - IMA

MAINTENANCE INSTRUCTION

- ※ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ※ Always follow dosage instructions carefully.
- ※ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ※ Resilient floors are damaged by solvents.
- ※ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ※ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ※ Remove all loose debris.
- ※ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ※ Mop sweep or vacuum to remove dust and grit.
- ※ Damp mop with a neutral detergent.
- ※ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

- ※ About 80% of surface soiling that has to be cleaned off is brought in from outside.
- ※ And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.
- ※ The less dirt that comes in through the entrance, the lower the maintenance requirements

Routine Maintenance < Warning : Always follow dosage instructions carefully >

Daily

- ※ Mop sweep or vacuum to remove dust and loose dirt.
- ※ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Weekly

- ※ Assess the appearance of the floor. Undertake the following as required.
- ※ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad

Periodically

- ※ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ※ Rinse thoroughly and allow to dry.
- ※ Dry buff to restore finish.



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Benner Clean Room - EVO



Commerical Homogeneous Vinyl Sheet Flooring

- > Cleancare™ treatment
- > Dural PUR reinforcement, T abrasion group
- > Virgin and recyclable material
- > DOTP plastisizer
- > 35 stock non-directional colors



RECYCLING

Both flooring material and packing material are recyclable



ENVIRONMENTAL

Industrial sites certufued ISO 14001
Healthy and sustinable materials, no heavy matalas, no solvents, no formaldehyde



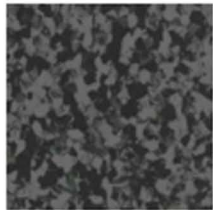
CE

European Parliament and European Council have adopted the latest version of the Machinery Directive (2006/42/CE) on 17 May, 2006. This new directive is made according to a new approach; its one of the basic directives on health and safety concern.

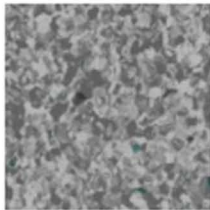


FLOORSCORE

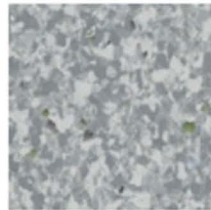
FloorScore is the most recognized indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlayments.



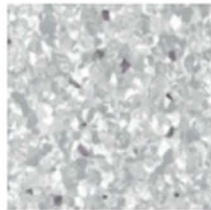
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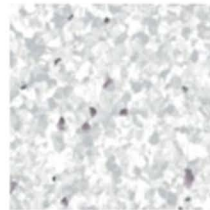
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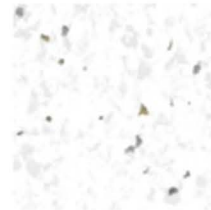
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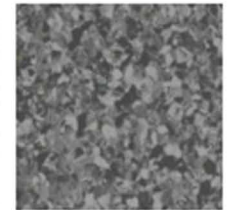
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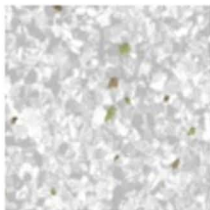
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EVO20056



EVO20057



EVO20058



EVO20059



EVO20060



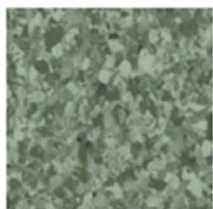
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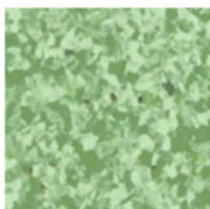
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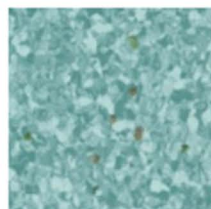
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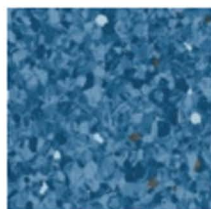
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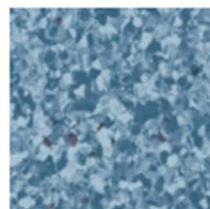
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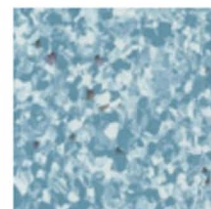
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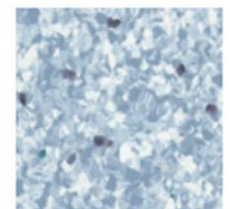
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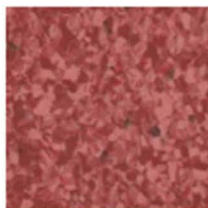


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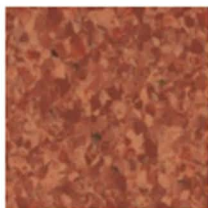
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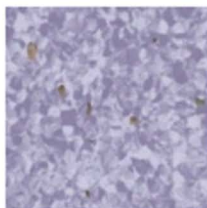
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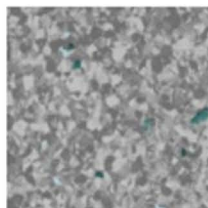
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EVO20075



EVO20076



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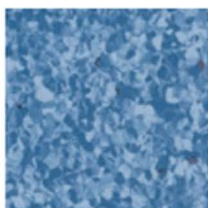
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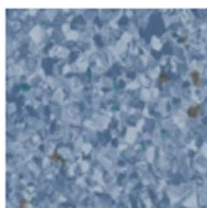
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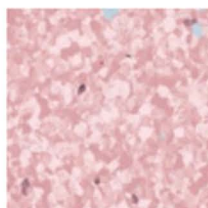
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EVO20081



EVO20082



EVO20083



EVO20084



High-density Homogeneous Layer

CLEAN CARE™ Treatment



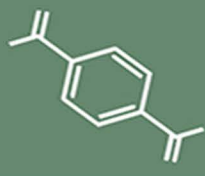
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Customizable function. It is supported by a kind of harmless organic sterilizing agent, can kill hundreds of germs like Staphylococcus aureus, Klebsiella pneumoniae, Pseudomonas aeruginosa etc. This liquid has got the certificate from United States Environmental Protection Agency, superior to Nano-silver.



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Customizable function. Add anti-static agent during production process ensures this function can achieve medical grade. Control the resistance value between 10^6 to 10^9 , especially suitable for clean rooms, etc.



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Benner Clean Room - EVO

PRODUCT SPECIFICATION

Total Thickness	EN 428	mm	2
Roll Width	EN 426	m	2
Roll Length	EN 426	m	20
Weight	EN 430	g/m ²	2800
Surface Treatment			PUR

CLASSIFICATION

Abrasion Group	EN 660-2	Class	T
Classification (Commercial)	EN 649	Class	34
Classification (Industrial)	EN 649	Class	43
Fire Rating	EN 13501-1:2007	Class	Bfl-s1
Flammability	ASTM E648	Class	I
Slip Resistance	DIN 51130:2004	Class	R9
Formaldehyde Emission	EN 14041	Class	E1
Fungi Resistance	ASTM G21	Class	0

PRODUCT PERFORMANCE

Flexibility	EN 435:1994 Method A	-	No crack
Indentation Residual	EN ISO 24343-1	mm	≈0.04
Static Electric Charge	EN 1815	kV	<2
Static Load Limit	ASTM F970	mm	0.034
Static Coefficient of Friction (Dry)	ASTM D2047-11	-	0.37
Static Coefficient of Friction (Wet)	ASTM D2047-11	-	0.39
Color Fastness	EN ISO 105-B02	-	6
Effects of Stain	EN 423	-	Pass
Dimension Stability (X Direction)	EN 434:1994	%	0.16
Dimension Stability (Y Direction)	EN 434:1994	%	0.14
Curling	EN 434:1994	mm	0.06
Toxicity Fumes	BS 6853:1999 Annex B	-	<0.3
Smoke Density	ASTM E662-13A	-	<450
Thermal Conductivity	EN 14041	W/m·K	0.043
Iodine Resistance			Excellent

CUSTOMIZABLE FUNCTION

Electrical Resistance	EN 1081-1998	Ω	10 ⁶ ~10 ⁸
Antimicrobial Activity (Aspergillus Niger)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Penicillium Pinophilum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Ayreobasidium Pullulans)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Chaetomium Globosum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Trichoderma Virens)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Staphylococcus Aureus)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Klebsiella Pneumoniae)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Pseudomonas)	ASTM G 21-13	%	>99.9



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Benner Clean Room - EVO

MAINTENANCE INSTRUCTION

- ※ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ※ Always follow dosage instructions carefully.
- ※ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ※ Resilient floors are damaged by solvents.
- ※ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ※ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ※ Remove all loose debris.
- ※ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ※ Mop sweep or vacuum to remove dust and grit.
- ※ Damp mop with a neutral detergent.
- ※ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

- ※ About 80% of surface soiling that has to be cleaned off is brought in from outside.
- ※ And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.
- ※ The less dirt that comes in through the entrance, the lower the maintenance requirements

Routine Maintenance < Warning : Always follow dosage instructions carefully >

Daily

- ※ Mop sweep or vacuum to remove dust and loose dirt.
- ※ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Weekly

- ※ Assess the appearance of the floor. Undertake the following as required.
- ※ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad

Periodically

- ※ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ※ Rinse thoroughly and allow to dry.
- ※ Dry buff to restore finish.



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Benner Clean Room - EVO

MAINTENANCE INSTRUCTION

- ※ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ※ Always follow dosage instructions carefully.
- ※ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ※ Resilient floors are damaged by solvents.
- ※ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
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- ※ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Weekly

- ※ Assess the appearance of the floor. Undertake the following as required.
- ※ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad

Periodically

- ※ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ※ Rinse thoroughly and allow to dry.
- ※ Dry buff to restore finish.



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Benner Clean Room - EVO

SAFETY DATA SHEET	Issue No:1	Date: 15 SEP 2017
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: **Clean Room EVO**

PRODUCT TYPE/USE: **Homogeneous Vinyl Sheet Flooring
2mm*2m*20m**

SUPPLIER: **Best Benner Building Corp.
Puerto Rico**

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acuduc gases.

HAZARDOUS CONBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USEAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3
NON-HAZARDOUS						

PROTECTIVE EQUIPMENT: None Required

HYGIENIC WORK PRACTICES: Maintain the flooring as recommended



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Benner Clean Room - EVO

SAFETY DATA SHEET	Issue No:1	Date: 15 SEP 2017
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Up to 2m wide rolls of flooring
COLOUR:	Various
ODOUR/TASTE:	Typical - low odour
SOLUBILITY DESCRIPTION:	Not-Applicable
BOILING POINT ('c, interbal):	Not-Applicable
VISCOSITY:	Solid
OTHER PHYSICAL DATA:	VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY:	Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS:	Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS:	None
HEALTH WARNINGS:	Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY:	Not-Applicable
TARGET ORGANS:	Not-Applicable
MEDICAL SYMPTOMS:	Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION:	Very low potential for bioaccumulation.
DEGRADABILITY:	Very slowly biodegradable.
ACUTE FISH TOXICITY:	Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:	Landfill in accordance with local regulations.
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14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE:	No special requirement.
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15. REGULATORY INFORMATION

LABEL FOR SUPPLY:	No special requirement.
RISK PHRASES:	Not-Applicable
SAFETY PHASES:	Not-Applicable

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transporation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.



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Benner Clean Room - TAN



Commercial Homogeneous Vinyl Sheet Flooring

- > Cleancare™ treatment
- > Dural PUR reinforcement, T abrasion group
- > Virgin and recyclable material
- > DOTP plastisizer
- > 24 stock non-directional colors



RECYCLING

Both flooring material and packing material are recyclable



ENVIRONMENTAL

Industrial sites certified ISO 14001
Healthy and sustainable materials, no heavy metals, no solvents, no formaldehyde



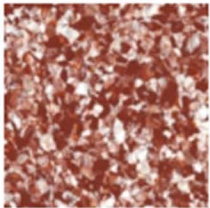
CE

European Parliament and European Council have adopted the latest version of the Machinery Directive (2006/42/CE) on 17 May, 2006. This new directive is made according to a new approach; its one of the basic directives on health and safety concern.

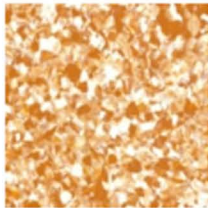


FLOORSCORE

FloorScore is the most recognized indoor air quality (IAQ) certification standard for hard surface flooring materials, adhesives, and underlayments.



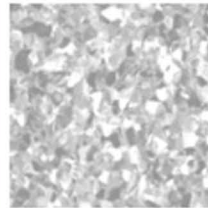
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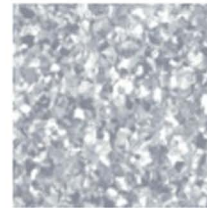
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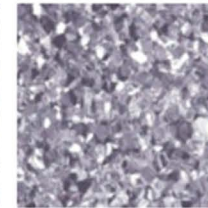
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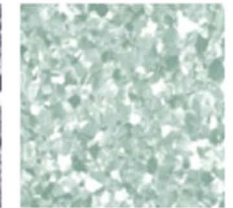
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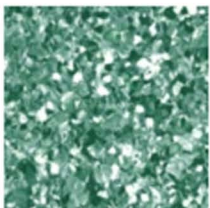
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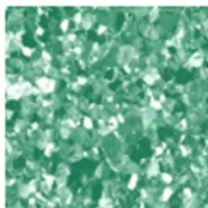
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TAN7407



TAN7408



TAN7409



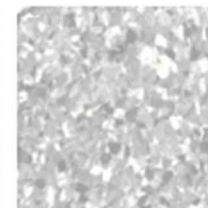
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TAN7411



TAN7412



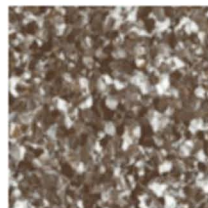
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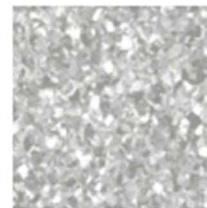
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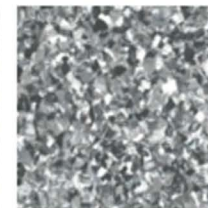
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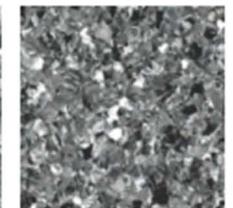
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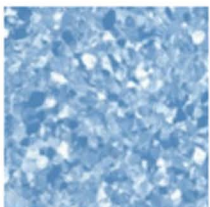
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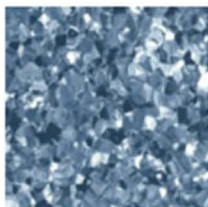
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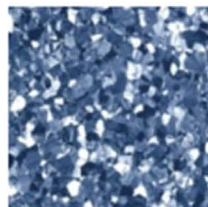
TAN7420



TAN7421



TAN7422



TAN7423



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Benner Clean Room - TAN



High-density Homogeneous Layer

CLEANCARE™ Treatment



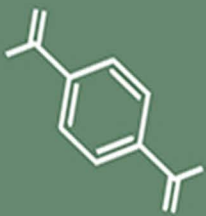
PUR

Treating the floor with a special PUR reinforcement not only improves the excellent wear resistance of the floor but also helps reduce bacteria and the passage of infection. This helps promote a fresh healthy environment.



CLEANCARE™

An hydrophobic surface technique strengthens the chemical resistance performance of flooring, especially iodine and its relevant solution which are frequently used in hospital.



DOTP

DOTP is a kind of environment friendly plasticizer that accepted by international organization. It can be used in the production of injector, pacifier and other products which contact with the skin directly.



HEALTECH™

Customizable function. It is supported by a kind of harmless organic sterilizing agent, can kill hundreds of germs like Staphylococcus aureus, Klebsiella pneumoniae, Pseudomonas aeruginosa etc. This liquid has got the certificate from United States Environmental Protection Agency, superior to Nano-silver.



ECONTROL™

Customizable function. Add anti-static agent during production process ensures this function can achieve medical grade. Control the resistance value between 10^6 to 10^9 , especially suitable for clean rooms, etc.



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Benner Clean Room - TAN

PRODUCT SPECIFICATION

Total Thickness	EN 428	mm	2
Roll Width	EN 426	m	2
Roll Length	EN 426	m	20
Weight	EN 430	g/m ²	2800
Surface Treatment			PUR

CLASSIFICATION

Abrasion Group	EN 660-2	Class	T
Classification (Commercial)	EN 649	Class	34
Classification (Industrial)	EN 649	Class	43
Fire Rating	EN 13501-1:2007	Class	Bfl-s1
Flammability	ASTM E648	Class	I
Slip Resistance	DIN 51130:2004	Class	R9
Formaldehyde Emission	EN 14041	Class	E1
Fungi Resistance	ASTM G21	Class	0

PRODUCT PERFORMANCE

Flexibility	EN 435:1994 Method A	-	No crack
Indentation Residual	EN ISO 24343-1	mm	≈ 0.04
Static Electric Charge	EN 1815	kV	<2
Static Load Limit	ASTM F970	mm	0.034
Static Coefficient of Friction (Dry)	ASTM D2047-11	-	0.37
Static Coefficient of Friction (Wet)	ASTM D2047-11	-	0.39
Color Fastness	EN ISO 105-B02	-	6
Effects of Stain	EN 423	-	Pass
Dimension Stability (X Direction)	EN 434:1994	%	0.16
Dimension Stability (Y Direction)	EN 434:1994	%	0.14
Curling	EN 434:1994	mm	0.06
Toxicity Fumes	BS 6853:1999 Annex B	-	<0.3
Smoke Density	ASTM E662-13A	-	<450
Thermal Conductivity	EN 14041	W/m·K	0.043
Iodine Resistance			Excellent

CUSTOMIZABLE FUNCTION

Electrical Resistance	EN 1081-1998	Ω	10 ⁶ ~10 ⁸
Antimicrobial Activity (Aspergillus Niger)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Penicillium Pinophilum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Ayreobasidium Pullulans)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Chaetomium Globosum)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Trichoderma Virens)	ASTM G 21-13	Grade	0
Antimicrobial Activity (Staphylococcus Aureus)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Klebsiella Pneumoniae)	ASTM G 21-13	%	>99.9
Antimicrobial Activity (Pseudomonas)	ASTM G 21-13	%	>99.9



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Benner Clean Room - TAN

MAINTENANCE INSTRUCTION

- ※ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ※ Always follow dosage instructions carefully.
- ※ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ※ Resilient floors are damaged by solvents.
- ※ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ※ Remember that light colors need more frequent cleaning.

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Routine Maintenance < Warning : Always follow dosage instructions carefully >

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- ※ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Weekly

- ※ Assess the appearance of the floor. Undertake the following as required.
- ※ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad

Periodically

- ※ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ※ Rinse thoroughly and allow to dry.
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Benner Clean Room - TAN

SAFETY DATA SHEET	Issue No:1	Date: 15 SEP 2017
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: **Clean Room TAN**

PRODUCT TYPE/USE: **Homogeneous Vinyl sheet Flooring
2mm*2m*20m**

SUPPLIER: **Best Benner Building Corp.
Puerto Rico**

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon disixide (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acuduc gases.

HAZADOUS CONBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USEAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3
NON-HAZARDOUS						

PROTECTIVE EQUIPMENT: None Required

HYGIENIC WORK PRACTICES: Maintain the flooring as recommended



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Benner Clean Room - TAN

SAFETY DATA SHEET

Issue No:1

Date: 15 SEP 2017

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable

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Benner Clean Room - IDA

Commercial flooring - Directional Homogeneous

- P Group abrasion resistance
- PUR surface treatment, virgin material
- 24 directional polychrome colors for freedom designs

CONTACT US



IDA2001



IDA2002



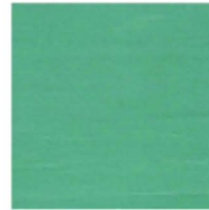
IDA2003



IDA2004



IDA2005



IDA2006



IDA2007



IDA2008



IDA2009



IDA2010



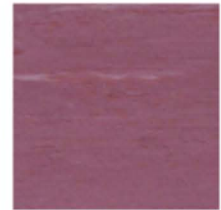
IDA2011



IDA2012



IDA2013



IDA2014



IDA2015



IDA2016



IDA2017



IDA2018



IDA2019



IDA2020



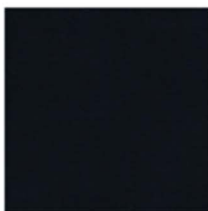
IDA2021



IDA2022



IDA2023



IDA2024



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Benner Clean Room - IDA



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Iodine-resistant

- Easy cleaning
- Effective ability against iodine



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP



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Benner Clean Room - IDA

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	3.15 kg/m ²	16 Rolls/ Pallet
Width & Length EN426	128kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group P
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥ Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayrebosidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	
		Staphylococcus Aureus	> 99.9% (Sterilizing rate)
		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV

All the test reports are provided by SGS and TUV.



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Benner Clean Room - IDA

SAFETY DATA SHEET	Issue No:1	Date: 24 September 2015
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room IDA

PRODUCT TYPE/USE: Vinyl sheet Flooring
2mm*2m*20m

SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acid gases.

HAZARDOUS COMBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USE/SAFETY PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3
NON-HAZARDOUS						



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Benner Clean Room - IDA

SAFETY DATA SHEET	Issue No:1	Date: 24 September 2015
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PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.



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Benner Clean Room - IDA

Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous 



Length : 20 Meters

Ground



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Benner Clean Room - IDA

Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ✧ Remove all loose debris.
- ✧ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

About 80% of surface soiling that has to be cleaned off is brought in from outside.

And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



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Benner Clean Room - DAK

Commercial flooring - Directional Homogeneous

- T Group abrasion resistance, the best level
- PUR surface treatment, virgin material
- 24 directional polychrome colors for freedom designs

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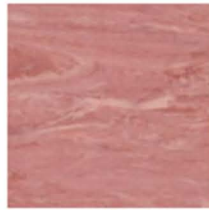
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DAK5032



DAK5033



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DAK5036



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DAK5039



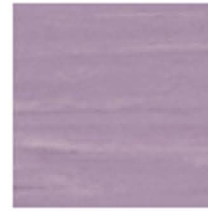
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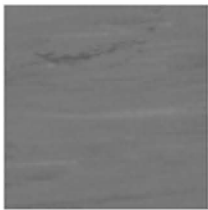
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DAK5045



DAK5046



DAK5047



DAK5048



DAK5049



DAK5050



DAK5051



DAK5052



DAK5053



DAK5054



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Benner Clean Room - DAK



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Iodine-resistant

- Easy cleaning
- Effective ability against iodine



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP



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Benner Clean Room - DAK

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	2.95 kg/m ²	16 Rolls/ Pallet
Width & Length EN426	120kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group T
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayrebasisidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	> 99.9% (Sterilizing rate)
		Staphylococcus Aureus	
		Klebsiella Pneumoniae	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV

All the test reports are provided by SGS and TUV.



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Benner Clean Room - DAK

SAFETY DATA SHEET	Issue No:1	Date: 19 January 2016
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room DAK

PRODUCT TYPE/USE: Vinyl Sheet Flooring
2mm*2m*20m

SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acid gases.

HAZARDOUS COMBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m ³	ppm	mg/m ³



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Benner Clean Room - DAK

SAFETY DATA SHEET	Issue No:1	Date: 24 September 2015
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PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable



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Benner Clean Room - DAK

Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous  Surfaces
Bottom



Length : 20 Meters

Ground



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Benner Clean Room - DAK

Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

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- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

About 80% of surface soiling that has to be cleaned off is brought in from outside.

And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



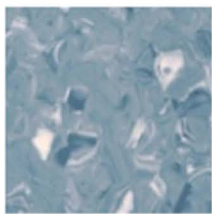
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Benner Clean Room -LIN

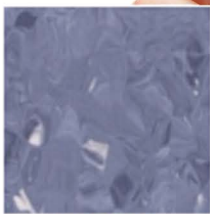
Commercial flooring - Non-directional Homogeneous

- T Group abrasion resistance, the best level
- PUR surface treatment, virgin material
- 24 non-directional polychrome colors for freedom designs

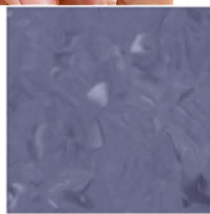
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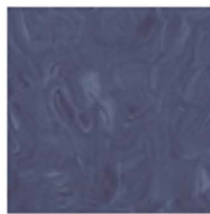
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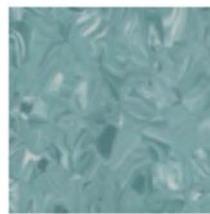
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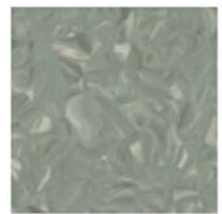
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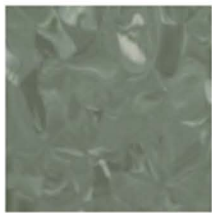
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LIN7306



LIN7307



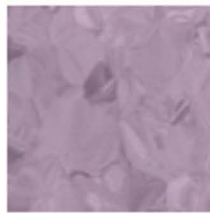
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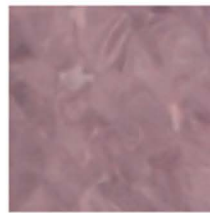
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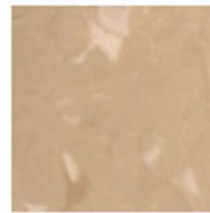
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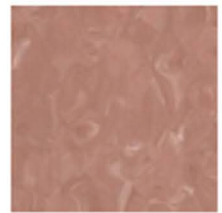
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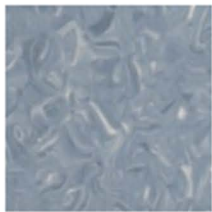
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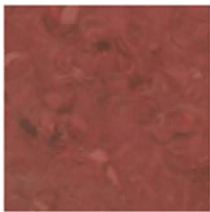
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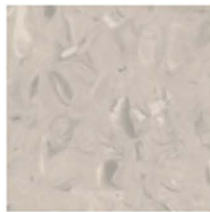
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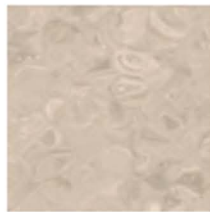
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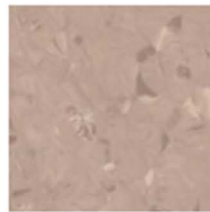
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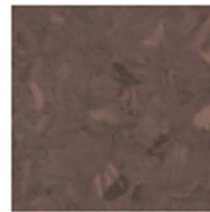
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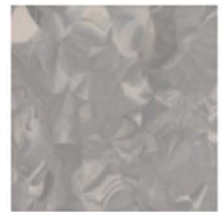
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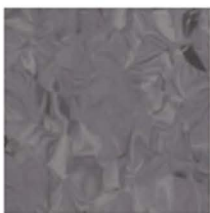
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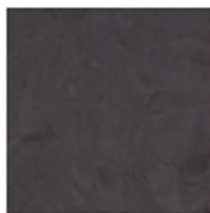
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LIN7323



LIN7324



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Benner Clean Room -LIN



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Iodine-resistant

- Easy cleaning
- Effective ability against iodine



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP





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Benner Clean Room -LIN

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	2.75 kg/m ²	16 Rolls/ Pallet
Width & Length EN426	112kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group T
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥ Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayerebasidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	
		Staphylococcus Aureus	> 99.9% (Sterilizing rate)
		Klebsiella Pneumoniae	
		Pseudomonas	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV

All the test reports are provided by SGS and TUV.



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Benner Clean Room -LIN

SAFETY DATA SHEET

Issue No:1

Date: 24 September 2015

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room LIN
PRODUCT TYPE/USE: Vinyl Sheet Flooring
2mm*2m*20m
SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.
EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.
SKIN CONTACT: No risk under normal circumstances.
INGESTION: Not a likely or expected route of exposure
OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable
EYE CONTACT: Not-Applicable
SKIN CONTACT: Not-Applicable
SKIN ABSORPTION: Not-Applicable
INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO₂)
SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acid gases.
HAZARDOUS COMBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USAGE PRECAUTIONS: No special precautions are required.
STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.
STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m ³	ppm	mg/m ³
NON-HAZARDOUS						



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Benner Clean Room -LIN

SAFETY DATA SHEET	Issue No:1	Date: 24 September 2015
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PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.



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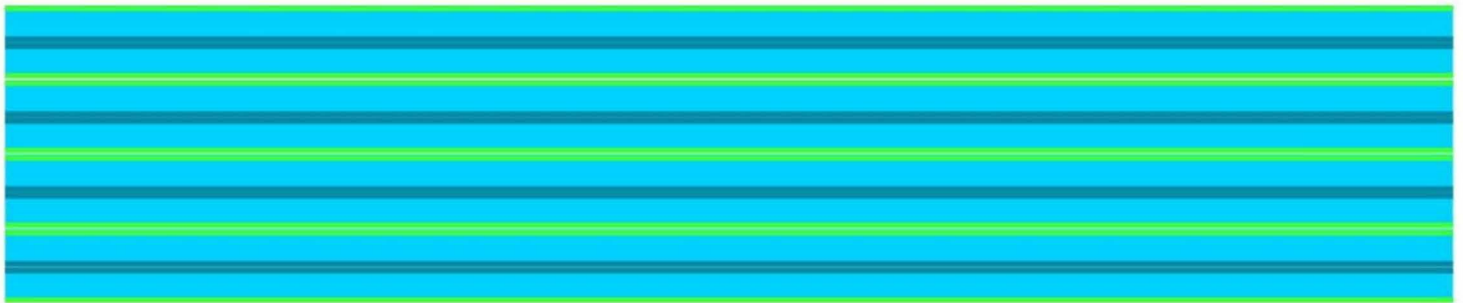
Benner Clean Room -LIN

Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous  Surfaces
Bottom



Length : 20 Meters

Ground



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Benner Clean Room -LIN

Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ✧ Remove all loose debris.
- ✧ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

About 80% of surface soiling that has to be cleaned off is brought in from outside.

And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



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Benner Clean Room - ASK

Commercial flooring - Non-directional Homogeneous
(Iodine-resistance)

- T Group abrasion resistance, the best level
- PUR surface treatment, virgin material
- Effective ability against iodine, easy cleaning
- 24 non-directional polychrome colors for freedom designs

CONTACT US



ASK7201



ASK7202



ASK7203



ASK7204



ASK7205



ASK7206



ASK7207



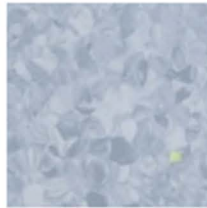
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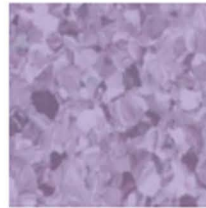
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ASK7211



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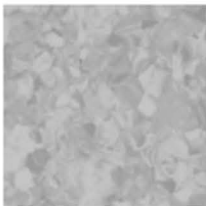
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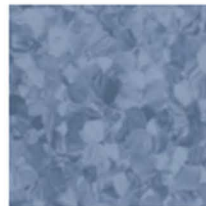
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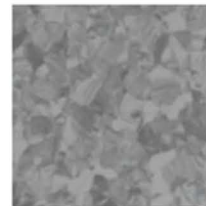
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ASK7218



ASK7219



ASK7220



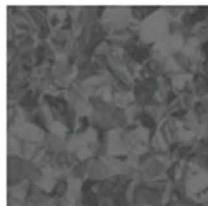
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ASK7222



ASK7223



ASK7224



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Benner Clean Room - ASK



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP



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Benner Clean Room - ASK

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	2.8 kg/m ²	16 Rolls/ Pallet
Width & Length EN426	114kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group T
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayrebasisidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	> 99.9% (Sterilizing rate)
		Staphylococcus Aureus	
		Klebsiella Pneumoniae	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤ R ≤ 10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV

All the test reports are provided by SGS and TUV.



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Benner Clean Room - ASK

SAFETY DATA SHEET	Issue No:1	Date: 06 June 2016
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room ASK

PRODUCT TYPE/USE: Vinyl Sheet Flooring
2mm*2m*20m

SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO₂)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acuduc gases.

HAZADOUS CONBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USEAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m ³	ppm	mg/m ³



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Benner Clean Room - ASK

SAFETY DATA SHEET

Issue No:1

Date: 24 September 2015

PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available from Bomei

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable



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Benner Clean Room - ASK

Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous 



Length : 20 Meters

Ground



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Benner Clean Room - ASK

Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

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- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

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And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



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Benner Clean Room - VIC

Commercial flooring - Non-directional Homogeneous

- T Group abrasion resistance, the best level
- PUR surface treatment, virgin material
- 27 non-directional polychrome colors for freedom designs

CONTACT US



VIC6601



VIC6602



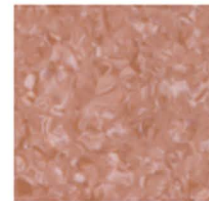
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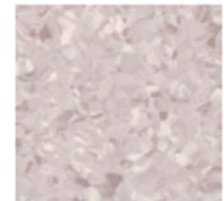
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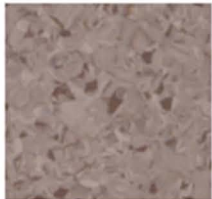
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VIC6607



VIC6608



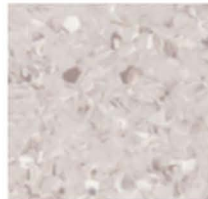
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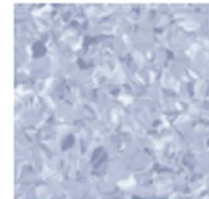
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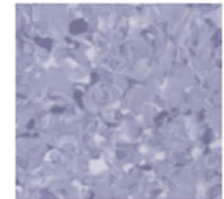
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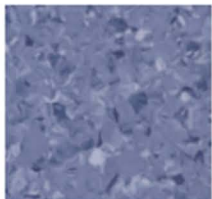
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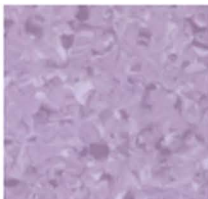
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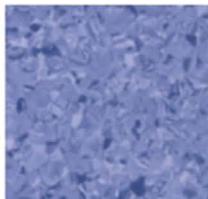
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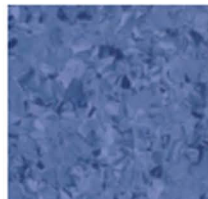
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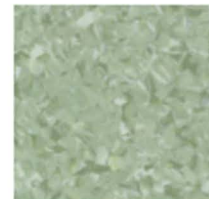
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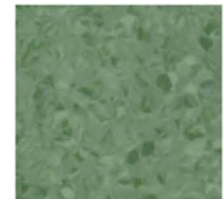
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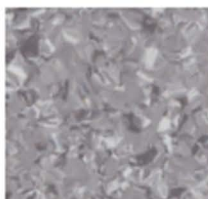
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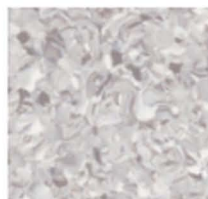
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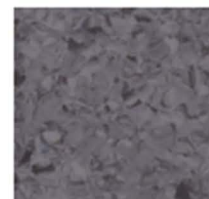
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VIC6629



VIC6630



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Benner Clean Room - VIC



Anti-bacterial

- Organic sterilizing agent pass the EPA test, harmless to human
- Agent permeates throughout the whole flooring structure, long-term effective



Anti-static

- $10^6 \leq \Omega \leq 10^8$ through EN 1081-1998
- Excellent wear resistance and cleaning characteristics



Iodine-resistant

- Easy cleaning
- Effective ability against iodine



Healthy and sustainable materials

- No Heavy metals, no solvents, no formaldehyde
- CE certificate



Recycling

- 100% recyclable materials



Environmental

- Industrial sites certified ISO 14001
- DOTP



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Benner Clean Room - VIC

Product Details

Thickness EN428	Weight EN430	Packaging
Total Thickness: 2.0mm	2.75 kg/m ²	16 Rolls/ Pallet
Width & Length EN426	112kg/ Roll	10 pallets / 20ft Container
Width: 2.0m, Length: 20m		6400 sq.m. / 20ft Container

Product Data

Test Item	Test Method	Standard Requirement	Bomeiflor Result
Flexibility	EN 435:1994 Method A	No crack shown in both directions when tested with a 10mm mandrel	No crack
Abrasion Resistance	EN 660-2	Class T <2.00mm ³ Class P >2.00mm ³ but ≤4.00mm ³	Group T
Indentation Residual	EN ISO 24343-1	< 0.1mm within 2.5 hours	Pass 0.07mm
Color Fastness	EN ISO 105 – B02	≥Level 6	Level 6
Fire Rating	EN ISO 13501-1:2007	Bfl: Critical Flux ≥ 8.0kW/m ² s1: Smoke development ≤750%* min	Bfl-s1
Effects of Stain	EN 423	24 hours exposure	Pass
Dimensional Stability & Curling on Exposure to Heat	EN 434:1994	Dimensional Movement <0.25% Curling <2mm	Pass 0.16% & 0.14% Pass 0.06mm
Indentation Residual	ASTM F970	Load: 125lb	Pass 0.034mm
Slip Resistance (Dry)	ASTM D2047-11	Coefficient of friction	0.37
Slip Resistance (Wet)	ASTM D2047-11	Coefficient of friction	0.39
Smoke Density	ASTM E662-13A	Flaming: Optical density of smoke Non-flaming: Optical density of smoke	564 491
Flammability	ASTM E648:2014	Class I: ≥0.45 Watts/cm	Class I
VOC	ASTM D5116:2010	<0.1mg/ m ³	Pass 0.02mg/m ³
Toxicity Fumes	BS 6853:1999 Annex B	R<1.0	R<0.3
CE	EN 14041	PCP	ND
		Formaldehyde Emission	ND Class: E1
		Slip Resistance	0.44 Class DS
		Thermal Conductivity	0.043W/m·K
Iodine Resistance*			Pass
Antimicrobial Activity*	ASTM G 21-13	Aspergillus Niger	0 Grade (No breeding)
		Penicillium Pinophilum	
		Ayerebasidium Pullulans	
		Chaetomium Globosum	
		Trichoderma Virens	> 99.9% (Sterilizing rate)
		Staphylococcus Aureus	
		Klebsiella Pneumoniae	
Electrical Resistance*	EN 1081-1998	10 ⁶ ≤R≤10 ⁸	7.74*10 ⁷ Ω
Surface Treatment			PUR and UV

All the test reports are provided by SGS and TUV.



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Benner Clean Room - VIC

SAFETY DATA SHEET	Issue No:1	Date: 10 May 2018
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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

PRODUCT NAME: Clean Room ASK

PRODUCT TYPE/USE: Vinyl Sheet Flooring
2mm*2m*20m

SUPPLIER: Best Benner Building Corp.
Puerto Rico

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS NO:	CONTENT	HEALTH	RISK PHRASES
NON-HAZARDOUS				

3. HAZARDS IDENTIFICATION

INHALATION: No risk under normal circumstances.

EYE CONTACT: As for inhalation. If HCL is formed it can react with the moisture in the eyes to form Hydrochloric acid. This will cause severe irritation to the eyes.

SKIN CONTACT: No risk under normal circumstances.

INGESTION: Not a likely or expected route of exposure

OTHER IMPORTANT HAZARDS: None

4. FIRST AID MEASURES

INHALATION: Not-Applicable

EYE CONTACT: Not-Applicable

SKIN CONTACT: Not-Applicable

SKIN ABSORPTION: Not-Applicable

INGESTION: Not-Applicable

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, fog or mist. Foam. Carbon dioxide (CO2)

SPECIAL FIRE FIGHTING PROCEDURES: Self extinguishing but will burn in the presence of flames. HCL is formed, use protection mask for acuduc gases.

HAZARDOUS COMBUSTION PRODUCTS: Fire creates: Hydrogen chloride (HCL)

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF PRODUCT IS RELEASED OR SPILT: Not-Applicable

7. HANDLING AND STORAGE

USEAGE PRECAUTIONS: No special precautions are required.

STORAGE PRECAUTIONS: Correct lifting techniques should be followed when lifting the rolls. Store in a clean, dry area.

STORAGE CRITERIA: Non hazardous material storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT NAME	CAS NO:	STD	LTEL		STEL	
			ppm	mg/m3	ppm	mg/m3
NON-HAZARDOUS						



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PROTECTIVE EQUIPMENT: None Required
HYGIENIC WORK PRACTICES: Maintain the flooring as recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Up to 2m wide rolls of flooring
COLOUR: Various
ODOUR/TASTE: Typical - low odour
SOLUBILITY DESCRIPTION: Not-Applicable
BOILING POINT ('c, interbal): Not-Applicable
VISCOSITY: Solid
OTHER PHYSICAL DATA: VOC data available

10. STABILITY AND REACTIVITY

STABILITY: Very stable. Avoid: Flame contact
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic gases/vapours/fumes of: Hydrogen chloride (HCL)

11. TOXICOLOGICAL INFORMATION

OTHER HELTH EFFECTS: None
HEALTH WARNINGS: Can cause irritation from the HCL formed when PVC flooring is burning.
ROUTE OF ENTRY: Not-Applicable
TARGET ORGANS: Not-Applicable
MEDICAL SYMPTOMS: Not-Applicable

12. ECOLOGICAL INFORMATION

BIO ACCUMULATION: Very low potential for bioaccumulation.
DEGRADABILITY: Very slowly biodegradable.
ACUTE FISH TOXICITY: Not toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

LABEL FOR CONVEYANCE: No special requirement.

15. REGULATORY INFORMATION

LABEL FOR SUPPLY: No special requirement.
RISK PHRASES: Not-Applicable
SAFETY PHASES: Not-Applicable

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transporation, disposal and release, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text.



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Maintenance Instruction

- ✧ Clean the flooring regularly, as this is more cost-effective and hygienic than occasional heavy-duty cleaning.
- ✧ Always follow dosage instructions carefully.
- ✧ Wipe up any grease and spilt oil immediately, as they may damage the surface.
- ✧ Resilient floors are damaged by solvents.
- ✧ Black rubber wheels and rubber feet can discolor the flooring. All chair and table legs should have good quality floor protectors. Felt pads are not recommended in commercial interiors. Hard plastic is preferred.
- ✧ Remember that light colors need more frequent cleaning.

Initial Construction Clean

An initial site cleaning is always carried out before using new flooring. Always protect the floor with hardboard or similar during the construction period.

- ✧ Remove all loose debris.
- ✧ Ensure that all traces of adhesive are removed from the surface of the flooring.
- ✧ Mop sweep or vacuum to remove dust and grit.
- ✧ Damp mop with a neutral detergent.
- ✧ If required, dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Preventive Care - Entrance Mat

About 80% of surface soiling that has to be cleaned off is brought in from outside.

And 90% of that soiling can be avoided using an effective and correctly dimensioned entrance mat.

The less dirt that comes in through the entrance, the lower the maintenance requirements.

Routine Maintenance - Daily < Warning : Always follow dosage instructions carefully >

- ✧ Mop sweep or vacuum to remove dust and loose dirt.
- ✧ If required, spot mop to remove stubborn marks, with a neutral cleanser.

Routine Maintenance - Weekly

- ✧ Assess the appearance of the floor. Undertake the following as required:
- ✧ Light scuffing – dry buff with a 1000 rpm plus rotary machine fitted with a suitable clean pad.

Routine Maintenance - Periodically

- ✧ Assess the appearance of the floor. If the floor has dirt build-up, machine scrub with a scrubber dryer (approx. 165rpm) fitted with a suitable clean pad, using a neutral or alkaline detergent, as appropriate.
- ✧ Rinse thoroughly and allow to dry.
- ✧ Dry buff to restore finish.



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Pre-installation Instruction

* The installation should be carried out in accordance with local standards.

1. Make sure the sub-floor is smooth, hard, clean and dry prior to installation.
2. The sub-floor should incorporate an effective damp proof membrane.
3. Open the package, put the flooring on the ground like the following picture. (At least 20 layers)
4. The material must be allowed to acclimatize 24 hours before installation and the room temperature needs to be between 18-24°C.

2mm Homogeneous  Surfaces
Bottom



Length : 20 Meters

Ground