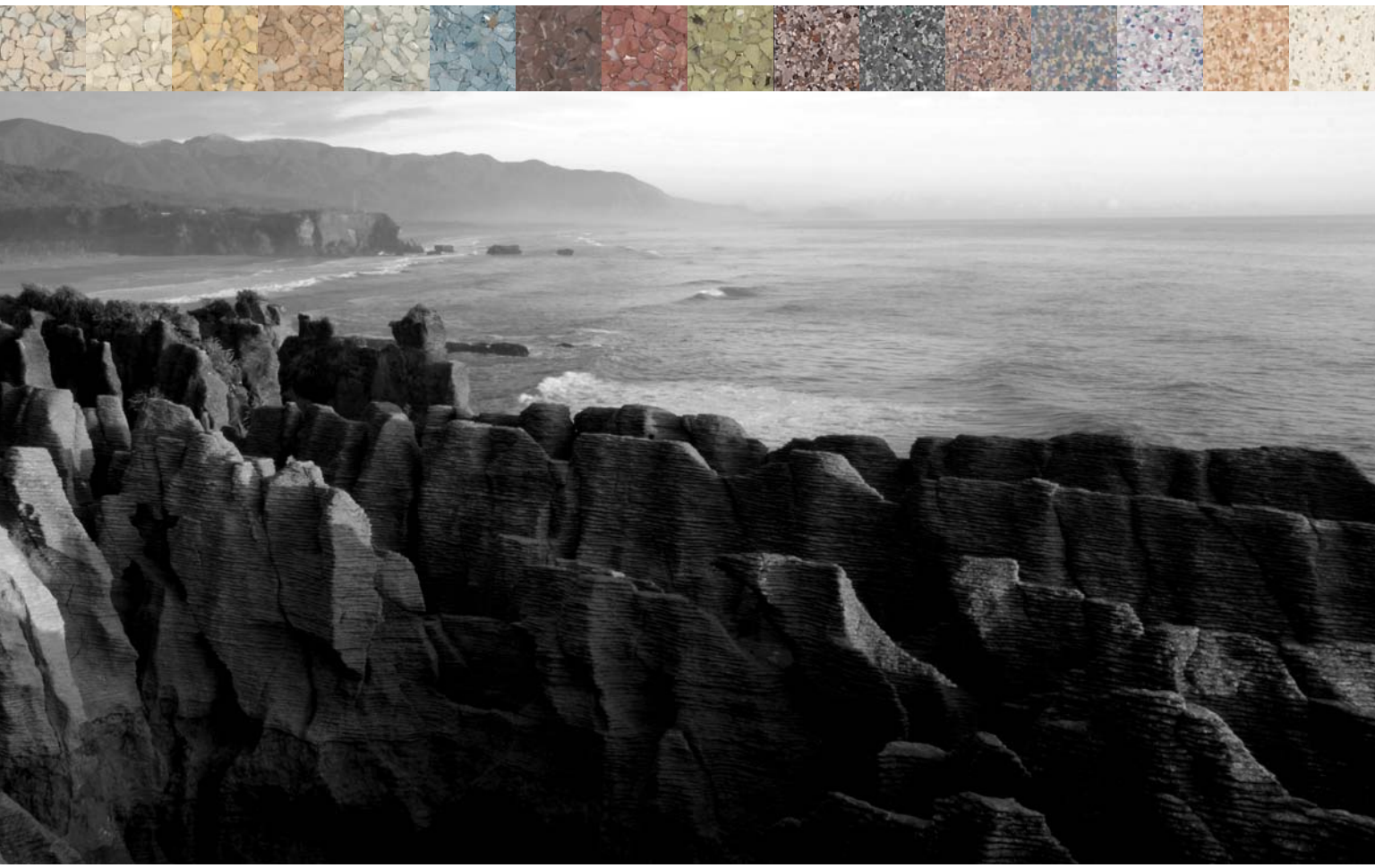
Armstrong®
COMMERCIAL FLOORING

Inlaid Sheet Flooring

POSSIBILITIES® Petit Point™ Connection CORLON®



linoleum ▪ biobased tile® ▪ lvt ▪ commercial hardwood ▪ **sheet** ▪ vct ▪ specialty flooring ▪ accessories

SHEET
Inlaid

Inlaid Sheet Flooring

Look to Armstrong for the widest choice of inlaid flooring products that are as high style as they are high performance. POSSIBILITIES® Petit Point™ and Connection CORLON® combine the best of Armstrong's heritage of durability with signature styling. It's easy to meet your needs for affordable, low VOC resilient sheet installations with inlaid floors that are easy to install and even easier to maintain.

Performance Through and Through

- Excellent gouge resistance created by through-color, through-pattern wear layer
- Fiberglass backing and inlaid wear layer resist damage from rolling loads
- Tested 500 PSI rating for floors that resist indentation from heavy static loads

Low Maintenance Improves Your Bottom Line

- UV-cured urethane coating protects the floor's appearance and improves scuff mark resistance
- Simplified maintenance—same procedure for all products keeps floors looking their best
- Saves time and costs that can reduce operating expenses and manpower needs
- Low maintenance methods and materials conserve energy and natural resources

Ease of Installation

- Fiberglass backing gives our inlaid products the flexibility to be flash-coved and seamed with ease
- 5 lb. Moisture Vapor Emission Rate (MVER) per ASTM F 1869
- 80% relative humidity allowed when testing concrete using an in-situ probe per ASTM F 2170
- Heat weld and flash cove for spaces requiring seamless installations with superior infection control
- POSSIBILITIES Petit Point can be seamed with S-761 seam adhesive for non-aseptic spaces, which saves installation time, materials and costs

Weld rod seam

S-761 seam option (POSSIBILITIES only)

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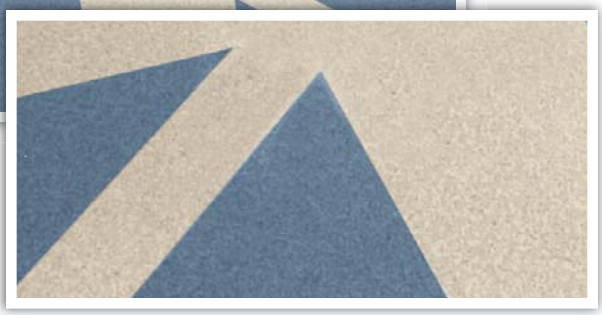
Textile inspired visuals

- Two products with over 50 choices in pattern- and color-compatible visuals
- Complex color combinations create sophisticated soft-looking floors
- Blending and accenting seaming options with color-coordinating solid color weld rods



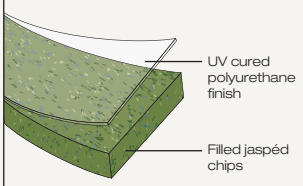
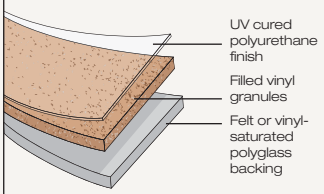
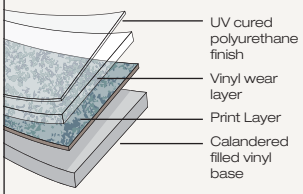
POSSIBILITIES® Petit Point™
88213 white sand
88206 blue retreat

Inlaid Sheet Flooring

Breathe Easy

- Low VOC emissions—FloorScore™ certified to California Section 01350
- Contributes to LEED® credit EQ4.3 for Indoor Air Quality. Adhesives contribute to EQ4.1
- Compatible with Green Guide for Health Care GGHC-IEQ4.3, Collaborative for High Performance Schools CHPS-IEQ2.2, and LABS-21 IEQ4.3

Connection CORLON®
88702 white cliffs

	Homogeneous	Inlaid	Heterogeneous
Construction	 Through-pattern/chip construction throughout entire thickness	 Through-pattern/chip wear layer	 Printed image
Products	MEDINTECH, ROYAL	MEDINTECH Tandem® with Felt Backing, POSSIBILITIES® Petit Point™, Connection CORLON®	TRANSLATIONS™, TIMBERLINE®, PERSPECTIVES® (sheet and tile)
Performance Attributes	Best combination of gouge and abrasion resistance Superior aseptic qualities when heat-welded Smooth easy to maintain surface protected by UV coating Excellent static load resistance	Gouge and abrasion resistant Suitable for aseptic application when heat-welded Easy to maintain surface protected by UV coating Static load resistant	Very abrasion resistant Suitable for aseptic applications when heat-welded Easy to maintain surface protected by UV coating Static load resistant
Wear Layer Thickness	0.080 in. (2.0 mm)	MEDINTECH Tandem 0.060 in. (1.52 mm) POSSIBILITIES Petit Point 0.040 in. (1.00 mm) Connection CORLON 0.050 in. (1.27 mm)	0.020 in. (0.5 mm)
Static Load Limit	750 PSI (52.73 kg/cm²)	500 PSI (35.16 kg/cm²)	750 PSI (52.73 kg/cm²)
Moisture Limit	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170	5 lbs. per ASTM F 1869 80% RH per ASTM F 2170
Maintenance Methods	No Polish Dry Buff, Spray Buff Polish-optional	No Polish Dry Buff, Spray Buff Polish-optional	No Polish Spray Buff Polish-optional
Seaming Options	Patterned weld rod (MEDINTECH) Solid weld rod S-761 seam adhesive	Patterned weld rod (MEDINTECH Tandem) Solid weld rod S-761 seam adhesive (POSSIBILITIES, MEDINTECH Tandem)	Solid weld rod S-761 seam adhesive

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Armstrong Lobby
POSSIBILITIES® Petit Point™ 88206 blue retreat,
88055 ash gray, 88205 fresh lavender, 88052 pearl gray

Visit **armstrong.com/sheet** • Call **1 877 ARMSTRONG**

POSSIBILITIES® Petit Point™

WELD ROD: W0___

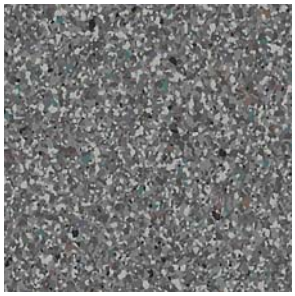
88052
pearl gray

W0631

88055
ash gray

W0026

88210
charcoal gray



W0084

88204
terra-firma

W0204

88213
white sand

W0011

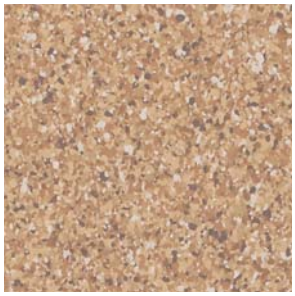
88079
wet sand

W0353

88215
chocolate delite

W0744

88203
woodtone blush



W0203

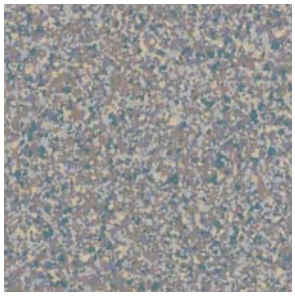
88091
colored earth

W0082

88067
painted desert

W0611

88209
river bed



W0735

88212
ginger peach

W0831

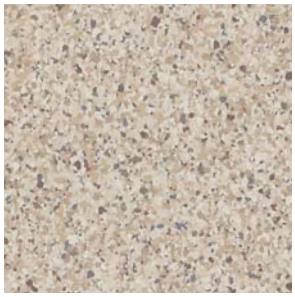
88065
almond white

W0432

88202
pebblewash

W0670

88053
sand bar



W0080

88078
sandpiper beige

W0081

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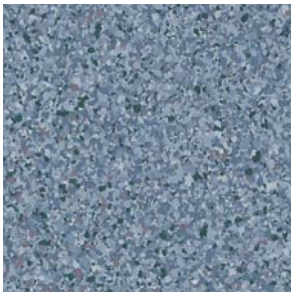
88214
montelimar beige

W0085

88211
purple brown

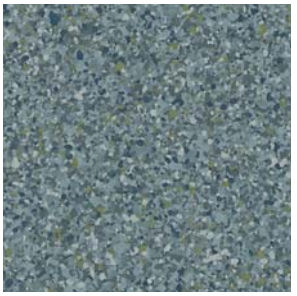
W0178

88206
blue retreat



W0206

88099
grayed blue

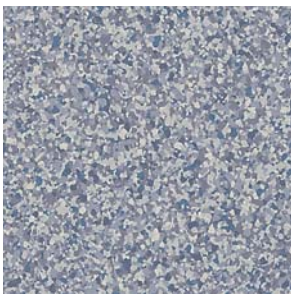


W0637

88201
cream hint

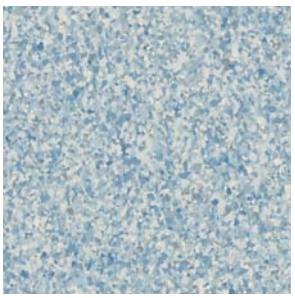
W0083

88205
fresh lavender



W0675

88094
blue moon



W0849

88207
mist blue

W0217

88098
brushed sand

W0025

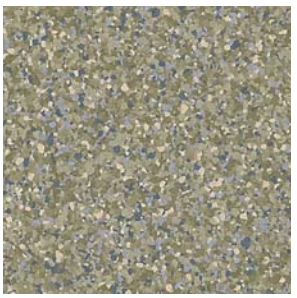
88096
sage greenery

W0651

88208
eastern sage

W0208

88097
tea garden green



W0140

Connection CORLON®

WELD ROD: W0___

88702
white cliffs

W0649

88731
light gold

W0664

88725
natural stone

W0013

88703
desert sand

W0868

88717
otter gray

W0672

88713
sandstone

W0662

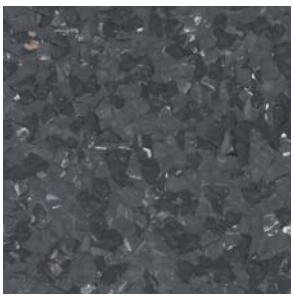
88704
stone harbor

W0650

88712
limestone

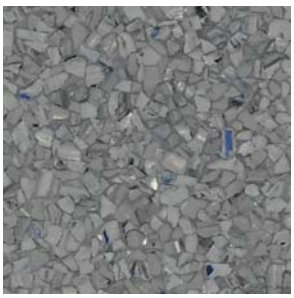
W0532

88700
anthracite



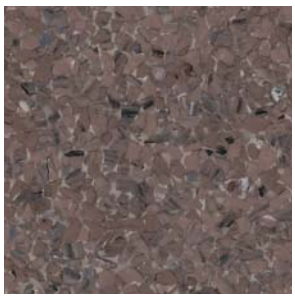
W0646

88701
granite gray



W0647

88728
bittersweet



W0652

88727
fall brown

W0738

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88724
porcelain

W0663

88730
ocean green

W0653

88738
green olive

W0660

88729
blue yonder

W0849

88705
devon beige

W0648

88733
amber

W0665

88737
azure gray

W0659

88736
blue dream

W0658

88726
nougatine

W0358

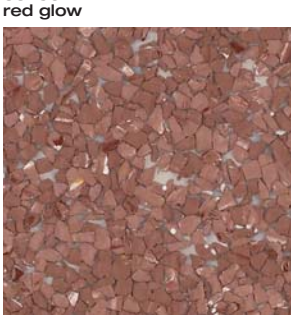
88732
yellow gold

W0654

88734
terracotta

W0656

88735
red glow



W0657

Inlaid Sheet Flooring

Comparative Data

Products (5)	Overall Thickness (nominal) (1)	Wear Layer (nominal) (1)	Static Load Limit PSI (kg/cm²) (2, 2a, 2b)	Durability (3)	Maintainability (3)	Resilience (3)	Reference Specs (4)
POSSIBILITIES® Petit Point™	0.080 in. (2.0 mm)	0.040 in. (1.00 mm)	500 (35.16) (2b)	VG	E	VG	ASTM F 1303, Type II, Class A backing Grade 1: Connection CORLON Grade 2: POSSIBILITIES
Connection CORLON®		0.050 in. (1.27 mm)					

1. Overall and wear layer thicknesses are nominal and subject to normal manufacturing variances.

2. PSI: lbs./sq. in. (kg/cm²)
   a) Static Load Limit per ASTM F 970
   b) Static Load Limit per ASTM F 970 modified by specifying a higher load on a smaller diameter tip. All other test conditions are standard. Subjective visual, no visually apparent indentation.
3. Subjective ratings (Excellent, Very Good, Good, Fair) are in relation to other Armstrong® commercial resilient floors. Ratings are not directly related to any one test. They are broadly based on tests and experience of Armstrong R & D under varying conditions and circumstances. These ratings should NOT be used for comparison to ratings used by other manufacturers to rank their own products.
4. Reference Specifications: Armstrong products are manufactured to meet or exceed specification requirements, except as noted.

5. All products meet the following Fire Test Data:
   a) ASTM E 648 Flooring Radiant Panel Critical Radiant Flux – 0.45 watts/cm² or more, Class I
   b) ASTM E 662 Smoke Chamber Specific Optical Smoke Density – 450 or less. Numerical flammability ratings alone may not define product performance under actual fire conditions. These ratings are provided only for use in the selection of products to meet specified limits.

Scratch Whitening

Darker-colored patterns may be susceptible to scratch whitening. These colors may require more frequent maintenance if used in field areas.

Product	Pattern Numbers
POSSIBILITIES Petit Point	88079, 88097, 88099, 88203, 88204, 88205, 88206, 88207, 88208, 88210, 88211, 88215
Connection CORLON	88700, 88701, 88728, 88735, 88736, 88738

Light Reflectivity Values in Percent

0-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74
88700	88728	88210	88099	88097	88079	88055	88067	88053	88052	88065	88213		
		88701	88206	88204	88205	88203	88094	88078	88098	88091			
		88735	88211	88209	88207	88214	88212	88096	88202	88703			
			88215	88734	88208	88733	88725	88201	88712	88705			
			88736	88737	88713		88729	88702	88731	88724			
				88738	88717		88730	88704					
					88727		88732	88726					

Measured under incandescent illumination (ASTM 1347). Types and patterns tested here are those most suited to commercial interiors where reflectivity is a major factor. Ratings for other patterns available upon specific request.

Recommended Applications

	POSSIBILITIES® Petit Point™	Connection CORLON®
Health Care/Hospital (a)		
Cafeteria, Dining Area (e)	H	H
Chapel	H	H
Corridors	H	H
Critical/Intensive Care	H	H
Dialysis (i)	H	H
Dry Physical Therapy	H	H
Elevators	H	R
Emergency Room Areas	H	H
Exam/Procedure Rooms	H	H
Gift Shop	H	H
Hydro Physical Therapy	N (3)	N (3)
Hyperbaric Room	N (6)	N (6)
Labor Delivery Rooms	H	R
Laboratories	H	H
Lobbies	H	H
Nurses Station	H	R
Office/Administrative/Conf. Rooms	R	R
Operating Rooms (b)	R (k)	R (k)
Patient Rooms	H	H
Pharmacy	H	H
Ramps/Ramped Corridors (Dry)	N (3)	N (3)
Scrub Areas	R (h, i)	R (h, i)
Stairways/Landings	R	R
Staff Lounge	R	R
Utility/Storage Room	R	R
Waiting Rooms	H	R
Assisted Living/Military Housing/Light Commercial		
Activity Rooms/Common Areas	H	H
Beauty Salon/Barber Shop	H	H
Corridors	H	H
Daycare Areas	H	H
Dining Areas	H	H
Doctor/Dentist Office	H	H
Residence Bathrooms (i)	H	H
Residence Kitchens (e)	H (e)	H (e)
Residence Rooms/Barracks	H	H
Education		
Auditoriums	H	H
Cafeteria, Dining Area (e)	R	H
Classrooms/Lecture Halls	H	H
Computer Rooms	R (6)	R (6)
Corridors	H	H
Dormitory Rooms	H	H
Food Service Area (e)	R (i)	R (i)
Gymnasium	R	R
Laboratories	H	R
Lavatories	H	H
Library	R	R
Locker Rooms (No Spikes)	N (3)	N (3)
Multipurpose Room/Cafetoriums	H	H
Office/Administrative/Conf. Rooms	H	R
Ramps/Ramped Corridors (Dry)	N (3)	N (3)
Showers/Shower Rooms	N (3)	N (3)
Stairways/Landings	R	R
Teacher's Lounge	H	H
Utility/Storage Areas	R	R
Vestibule/Entryway/Foyers (i)	N	N

	POSSIBILITIES Petit Point	Connection CORLON
Mercantile		
Automobile Showrooms	H	H
Checkout/Cash Wrap	H	R
Food Service (e)	H (i)	R (i)
Frozen Food	R	R
Indoor Mall Common Areas	N	N
Produce Area	R	R
Sales Floor – Department Stores	R	R
Sales Floor – Grocery	R	R
Sales Floor – Mass merchant	R	R
Specialty Shops/Areas	H	H
Office		
Computer Room	N (6)	N (6)
Corridors	H	H
Elevators	H	H
Lavatories	H	H
Lobby	H	R
Lunchrooms (e)	H	H
Offices/Conference Rooms	H	R
Stairways/Landings	R	R
Utility/Storage Rooms	R	R
Hospitality		
Around Whirlpool/Spas	N (3)	N (3)
Corridors	H	H
Dining Room (e)	R	R
Elevators	H	R
Exercise Rooms	R	R
Guest Bathrooms (i)	H	H
Guest Rooms	H	H
Lobby	H	R
Lounge	H	H
Stairways/Landings	R	R
Vending Areas (i)	R	R
Light Industrial		
Clean Rooms	H	R
Computer Repair Lab	N (6)	N (6)
Electronic Testing Lab	N (6)	N (6)
Electronics Manufacturing	N (6)	N (6)
Environmental Conditioning Unit	N	N
Photo Processing	H	H
Production Laboratory	H	R
Research Laboratory	H	R
Small Parts Assembly	H	R
Sterile Packaging	H	R
Warehouse	N	N
Transportation		
Airport/Railway/Bus Terminals	N	N
Civic/Convention Centers	N	N
Museums/Cultural Centers	R	R

H = Highly Recommended
The best flooring choice(s) for the space.

R = Recommended
Flooring choice(s) that are suitable for the space.

N = Not Recommended
Flooring that should not be used for the space.

The ratings of H, R or N are based on an evaluation of the performance, cost and aesthetic requirements of the space.

NOTES:

- Numerical footnotes apply to the space requirements
- Alpha footnotes apply to the product's suitability for the space

(3) Slip Retardance — A more secure walking surface is required

(6) Not recommended in areas that require electrostatic discharge control

(a) In most cases veterinary applications are similar

(b) Only operating rooms not requiring conductive flooring.

(e) Armstrong floors are not recommended for commercial kitchens and commercial food processing areas, including behind fast-food counters

(h) Heat Weld recommended

(i) No standing water; walk-off mats required

(k) Heat Weld only

In addition to spaces listed on this chart:

- Armstrong floors may be used on stair steps, risers and landings. A manufactured slip-retardant nosing should always be applied on steps
- Most Armstrong commercial sheet floors can be flash coved (integral cove). Most building codes consider flash coving in the same category as baseboard trim with respect to fire rating. Consult applicable codes for the particular project to determine the interpretation of allowable height for flash cove
- Armstrong floors are not recommended for exterior use, for interior spaces where pointed spike golf or track shoes will be used, or in areas where the floor will be subjected to unusually concentrated static or dynamic loads
- Armstrong floors should not be used as wall covering or wall surfacing

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POSSIBILITIES® Petit Point™ ▪ Connection CORLON®

Specification Data

Material
A wear layer composed of polyvinyl chloride resin, plasticizers, stabilizers, fillers and pigments on a backing suitable for use on approved subfloors on all grade levels.

Construction and Colors
Structure consists of vinyl granules extending through the thickness of the wear layer. The polyurethane-coated surface has an overall randomly embossed texture. Color pigments are insoluble in water and resistant to cleaning agents and light.

Size
6.0 ft. (1.83 m) wide, up to 82.5 ft. (25.0 m) in length

Gauge (nominal thickness)
0.080 in. (2.0 mm) overall

Wear Layer (nominal)
POSSIBILITIES Petit Point: 0.040 in. (1.0 mm)
Connection CORLON: 0.050 in. (1.27 mm)

Limitations
POSSIBILITIES Petit Point and Connection CORLON should not be used in the following areas:
- Heavy industrial and exterior areas.
- Commercial kitchens and commercial food processing areas.
- Where pointed spikes such as golf or track shoes will be used.
- Where the floor will be subjected to unusually concentrated static or dynamic loads.

NOTE: Concentrated static and dynamic loads such as hospital beds, roll-out bleachers, portable x-ray machines, etc., may visibly damage resilient as well as other types of floor coverings. **For questions regarding product suitability and detailed instructions for floor preparation and installation in these applications, please contact Armstrong.**

Suitable for Application Over
- Concrete, terrazzo, and other dry, structurally sound monolithic subfloors, which are suspended, on grade or below grade.
- Suspended wood subfloor construction with approved wood underlayments, and a minimum of 18 in. (45.7 cm) well-ventilated air space below.
- Most metal floors and most existing single-layer resilient floors on approved underlayments.
- Radiant-heated subfloors with a maximum surface temperature of 85˚ F (29˚ C).

Unsuitable for Application Over
- Subfloors where excessive moisture or alkali is present.
- Wood subfloors applied directly over concrete, or on sleeper-construction subfloors.
- Lightweight aggregate concrete subfloors having a density of less than 90 lbs. per cu. ft. (1442 kg/m³) or cellular concrete having a plastic (wet) density less than 100 lbs. per cu. ft. (1602 kg/m³) [94 lbs. per cu. ft. (1506 kg/m³) dry weight], or concrete having a compressive strength of less than 3500 psi (24 MPa). Concrete slabs with heavy static and/or dynamic loads should have higher design strengths and densities calculated to accommodate such loads.

Concrete curing agents, sealers, hardeners, or parting agents should be removed.

TECHNICAL DATA

Shipping Weight
POSSIBILITIES Petit Point: 5.35 lbs./sq. yd. (2.90 kg/m²)
Connection CORLON: 6.0 lbs./sq. yd. (3.3 kg/m²)

Gloss (typical value)
POSSIBILITIES Petit Point: 60 degrees specular: approximately 10-15
Connection CORLON: 60 degrees specular: approximately 5-15

SmartSample™
reduce. reuse. recycle.

floor score
LEED eligible under Credit EQ4.3 for Indoor Air Quality.

U.S. GREEN BUILDING COUNCIL MEMBER

ISO 9001 QMI REGISTERED
Quality Management Standard

FSC
Mixed Sources
Cert no. SW-COC-2157
© 1996 FSC

Reference Specifications
Connection CORLON: ASTM F 1303, Type II, Grade 1, Class A backing
POSSIBILITIES Petit Point: ASTM F 1303, Type II, Grade 2, Class A backing

Static Load Limit
500 lbs./sq. in. (35.16 kg/cm²)
ASTM F 970 modified by specifying a higher load on a smaller diameter tip. All other conditions are standard.

NOTE: Floors should be protected from sharp-point loads and heavy static loads. High-heeled traffic [1000 psi (70.3 kg/cm²) or more] may visibly damage wood, resilient and other floor coverings.

Comparative Subjective Property Ratings
Durability – Very Good
Maintainability – Excellent
Resilience – Very Good
Subjective ratings (excellent, very good, good, fair) are in relation to other Armstrong commercial resilient floors. Ratings are not directly related to any one test. They are broadly based on tests and experience of Armstrong Research and Development under varying conditions and circumstances. These ratings should not be used for comparison to ratings used by other manufacturers to rank their own products.

Fire Test Data
ASTM E 648 Flooring Radiant Panel Critical Radiant Flux – 0.45 watts/cm² or more – Class I
ASTM E 662 Smoke Chamber Specific Optical Smoke Density – 450 or less
Numerical flammability ratings alone may not define the performance of the product under actual fire conditions. These ratings are provided only for use in the selection of products to meet the specified limits.

INSTALLATION

Job Conditions
Subfloors/underlayments shall be dry, clean, and smooth. They shall be free from paint, varnish, solvents, wax, oil, existing adhesive residue, or other foreign matter.

For more detailed requirements of concrete, wood and metal subfloors, as well as wood and trowelable underlayments, refer to Armstrong Guaranteed Installation Systems manual, F-5061. Moisture testing must be performed on all concrete slabs regardless of their age or grade level including areas where resilient flooring has already been installed. Moisture Vapor Emission Rate (MVER) or percent relative humidity tests must be conducted. Armstrong offers a guideline of a maximum acceptable MVER of 5.0 lbs. /1000 sq. ft. /24 hours per ASTM F 1869 or 80% RH per ASTM F 2170. Bond Tests should also be conducted for compatibility with the substrate. When testing for alkalinity, the allowable readings for the installation of Armstrong flooring are 5 to 9 on the pH scale.

Temperature shall be maintained at a minimum of 65°F (18°C) and a maximum of 100°F (38°C) for 48 hours prior to installation, during installation and 48 hours after completion when using Armstrong S-599 Adhesive. When using Armstrong S-240 Epoxy Adhesive, the temperature shall be maintained at a minimum of 65°F (18°C) and a maximum of 85°F (29°C) for 48 hours prior to installation, during installation and 48 hours after completion. A minimum temperature of 55°F (13°C) shall be maintained thereafter. Condition all flooring materials and adhesives to room temperature at least 48 hours prior to starting installation. Protect all materials from the direct flow of heat from hot-air registers, radiators, or other heating fixtures and appliances.

Procedure
Must be installed using S-599 Adhesive full spread in field areas and Armstrong S-580 Adhesive in flash cove areas. Seams must be heat welded (Connection CORLON and POSSIBILITIES) or sealed with S-761 Seam Adhesive (POSSIBILITIES only). In areas subjected to heavy static and dynamic loads, it may be necessary to install with Armstrong S-240 Epoxy Adhesive in the field area. Detail instructions may be found in the Armstrong Guaranteed Installation Systems manual, F-5061.

MAINTENANCE
Designed to be maintained by traditional resilient flooring maintenance methods. May be maintained by polishing, spray-buffing or dry buffing. The urethane protective finish can make initial maintenance easier, as well as reduce ongoing maintenance procedures.

Initial Maintenance Immediately After Installation
- Sweep or vacuum thoroughly.
- Damp mop with a dilute neutral detergent solution such as Armstrong S-485 Floor Cleaner – carefully wiping up black marks and excessive soil.
- Do not wet wash or scrub the floor for at least four to five days after installation.

Preparation for Commercial Use
For specific, ongoing maintenance procedures, see Armstrong Commercial Resilient Flooring Maintenance Recommendations booklet, F-8663.

WARRANTIES
Armstrong warrants its regular (first quality) commercial resilient floors and wall base to be free from manufacturing defects for five years from the date of purchase. Armstrong also warrants the installation integrity of its commercial floor for five years from the date of purchase, if installed according to the Armstrong Guaranteed Installation Systems manual, F-5061. See Armstrong Commercial Floor Warranty, F-3349 or visit armstrong.com for warranty details, limitations and exclusions.

WARNING: EXISTING IN-PLACE RESILIENT FLOOR COVERING AND ASPHALTIC ADHESIVES. DO NOT SAND, DRY SWEEP, DRY SCRAPE, DRILL, SAW, BEADBLAST, OR MECHANICALLY CHIP OR PULVERIZE EXISTING RESILIENT FLOORING, BACKING, LINING FELT, ASPHALTIC "CUTBACK" ADHESIVE, OR OTHER ADHESIVE.

These **existing in-place** products may contain **asbestos fibers** and/or **crystalline silica**. Avoid creating dust. Inhalation of such dust is a cancer and respiratory tract hazard. Smoking by individuals exposed to asbestos fibers greatly increases the risk of serious bodily harm. Unless positively certain that the existing in-place product is a non-asbestos-containing material, you must presume it contains asbestos. Regulations may require that the material be tested to determine asbestos content and may govern removal and disposal of material. See current edition of the Resilient Floor Covering Institute (RFCI) publication Recommended Work Practices for Removal of Resilient Floor Coverings for instructions on removing all resilient floor covering structures or contact your retailer or Armstrong World Industries, Inc. 1 800 233 3823.

The floor covering or adhesive in this package does NOT contain asbestos.

The knowledge and technical support you need to bring your vision to life.

Visit **armstrong.com/flooring** or
Call **1 877 ARMSTRONG (276 7876)**
Choose option **2** to:
Talk to a **TechLine Flooring Expert**
Contact your **Local Armstrong Flooring Representative**
Order **Samples and Literature**

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