



Distributions Fillion Marquis International Itée
 100-420, industriel blvd., Saint-Jean-sur-Richelieu (Québec) J3B 4S6
 Tel. : 450 349-2226 • Fax : 450 349-1799 • Toll Free : 1 877 989-2226
 passeportelite.com

TECHNICAL DATA SHEET

Passeport Elite Industrial
 Moisture Vapor Barrier Epoxy Coating
 PE700228

DESCRIPTION

PE700228 is a 100% solid, two component moisture vapor barrier epoxy coating, component, designed to be used as a moisture vapor retarder for concrete and a variety of finished floor coverings such as vinyl tiles and sheeting, hard wood etc. It can be used as a primer, bonding agent as well as top coat. It offers a long pot life while providing some fast-curing speed at ambient and low temperature conditions. It also exhibits excellent mechanical properties. PE700228 controls moisture vapor emission rates up to 25 lb. /24 hr. /1000 square feet while providing excellent mechanical properties and good chemical resistance.

PRIMARY APPLICATIONS

- Aircraft hangers
- Assembly areas
- Classrooms
- Clean rooms
- Laboratories
- Areas of light manufacturing
- Mechanical rooms

ADVANTAGES

- Dense surface resistant to bacteria, moisture and is easy to clean.
- May apply several layers onto itself with excellent adhesion.
- Excellent adhesive properties allow application onto many different types of substrates.

TECHNICAL DATA

Packaging	3 gallons / 11.35L		
Color	Part A	Part B	Mix
	Upon request	Clear to Amber	Upon request
Recommended Thickness	Primer	6-8 mils	
	Finish Coat	8-12 mils	
Mileage per gallon (8 mils thick)	200 ft ²		
Mileage for Slurry Application (50% Silica Sand) (12 mils thick)	125 ft ²		
Mileage for Trowel Epoxy Application (85% Silica Sand) (24 mils application)	60 ft ²		
Shelf life	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
Mix Ratio, by volume	A: B = 2:1 (100:50)		
Mix Ratio, by weight	A: B = 100:39:45		
Gel time (100 g)	75-85 Minutes @ 25°C (77°F)		
PROPERTIES @ 23°C (73°F) and 50% R.H.			
Solids Content, by weight	100%		
Solids Content, by volume	100%		
Specific Gravity	Part A	Part B	Mix
	Clear	1.14	0.9 - 1.0
	Colors	1.15 - 1.20	0.9 - 1.0
Thinner Recommended	Xylene		
Moisture Vapor Emission Rate ASTM E96	25 lb. /24 hr. /1000 square feet		
Bond Strength, ASTM D4541	>300 (substrate ruptures)		

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Hardness (Shore D), ASTM D2240		85-90			
Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)		0.10g			
Tensile strength (psi), ASTM D638		6500			
Compressive Strength (psi MPa), ASTM D695		9000-10000			
Elongation (%), ASTM D638		6-7%			
Viscosity @ 25°C		Part A	Part B	Mix	
Clear		1200 - 1400	200 - 400	1500-1800	
Colors		1500 - 1900	200 - 400	2300-2500	
Overcoat		Substrate Temp	Minimum	Maximum	
		± 10 °C / 50°F	N.A	N.A	
		± 20 °C / 68°F	12 hours	1 day	
		± 30 °C / 86°F	8 hours	1 day	
Curing details		Substrate Temp	Foot Traffic	Light Traffic	Full Cure
		± 10 °C / 50°F	N.A	N.A	N.A
		± 20 °C / 68°F	1 day	2 days	7 days
		± 30 °C / 86°F	1 day	36 hours	5 days
VOC (g/L)		25 g/L			

* Please note, that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same surface area *

SURFACE PREPARATION

The surface to be covered must be well primed. Dust, laitance, grease, oil, dirt, impregnating agents, foreign bodies and disintegrated substances must be removed by mechanical means such as shot blasting (BLASTRAC) or any other approved method to to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in2) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in2).

MIXING

Materials should be pre-conditioned to a minimum of 10°C (50°F) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

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APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

CLEANING

Clean all tools and materials with soapy water followed by a solvent rise. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 15°C / 30°C (59°F / 86°F).
- Maximum relative humidity during application and curing: 85%.
- Substrate temperature must be 15°C (59°F).
- Humidity content of substrate can be over 4 % when coating is applied.
- Do not apply on porous surfaces where a transfer of humidity may occur during application.
- Avoid exterior use on substrates at ground level.
- Protect from humidity, condensation and contact with water during the 24-hour initial curing period.
- Surface may discolor in areas exposed to regular ultraviolet light.

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult a physician. For respiratory irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact. Contact with product may cause severe burns. Avoid breathing vapors released from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Always work in a properly ventilated area.

Consult the material safety data sheet for further information.

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