



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
FLOOR EPOXY
PE700910 - PE700911

DESCRIPTION

Passeport Élite floor epoxy is a very fast, 100% solid, two-component, self-leveling epoxy coating designed to restore and improve the appearance of various types of surface, especially concrete. It can be colored or mixed with different colors or metallic powders to obtain opaque, glossy floors. This product has excellent mechanical properties and good chemical resistance. It has excellent resistance to crystallization and durability, while retaining its artistic appearance. This system complies with Canadian Food Inspection Agency (C.F.I.A.) standards.

PRIMARY APPLICATIONS

- Garage Floor
- Basement Floor
- Workshop

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	8,5 L								
Color	<table border="1"> <thead> <tr> <th></th> <th>Part A</th> <th>Part B</th> <th>Mix</th> </tr> </thead> <tbody> <tr> <td></td> <td>Upon request</td> <td>Clear to Amber</td> <td>Upon request</td> </tr> </tbody> </table>		Part A	Part B	Mix		Upon request	Clear to Amber	Upon request
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	Upon request	Clear to Amber	Upon request						
Recommended Thickness	<table border="1"> <tbody> <tr> <td>Primer</td> <td>6-8 mils</td> </tr> <tr> <td>Finish Coat</td> <td>8-12 mils</td> </tr> </tbody> </table>	Primer	6-8 mils	Finish Coat	8-12 mils				
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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 Clear/Colors	A: B = 2:1 (100:50)								
Mix Ratio by weight Clear/Colors	A: B = 100:39-45								
Gel time (100 g)	10-15 minutes @ 25°C								
Pot life (100g) @ RT	5-10 minutes								

PROPERTIES @ 23°C (73°F) and 50% R.H.

Solids Content, by weight	100%												
Solids Content, by volume	100%												
Specific Gravity	<table border="1"> <thead> <tr> <th></th> <th>Part A</th> <th>Part B</th> <th>Mix</th> </tr> </thead> <tbody> <tr> <td>Clear</td> <td>1.10 - 1.15</td> <td>0.9 - 1.0</td> <td>-</td> </tr> <tr> <td>Colors</td> <td>1.15 - 1.20</td> <td>0.9 - 1.0</td> <td>-</td> </tr> </tbody> </table>		Part A	Part B	Mix	Clear	1.10 - 1.15	0.9 - 1.0	-	Colors	1.15 - 1.20	0.9 - 1.0	-
	Part A	Part B	Mix										
Clear	1.10 - 1.15	0.9 - 1.0	-										
Colors	1.15 - 1.20	0.9 - 1.0	-										
Thinner Recommended	Xylene												
Permeability (%), ASTM D570	0,8% VRM												
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	12000 - 13000			
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	Minimum 16 hours Maximum 48 hours			
Curing details	Substrate Temp	Foot Traffic	Light Traffic	Full Cure
	± 10 °C / 50°F	2 days	5 days	10 days
	± 20 °C / 68°F	1 day	2 days	7 days
	± 30 °C / 86°F	12 hours	1 day	5 days
VOC	31 g/L			

Note: These times are approximate and will be influenced by changes in ambient conditions

*** 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

Old concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply onto wet substrates. Chloride, moisture, and pH levels should be checked prior to application. SCI-801 primer is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled and repaired with PE700905 prior to application.

New concrete

New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch²). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. Passeport Elite Epoxy Floor primer should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired with PE700905 prior to application.



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MIXING

Materials must be pre-conditioned at a minimum of 10°C (50°F) before use. Mix each component separately for approx. 2 minutes to evenly distribute the suspended solids content. Empty component A into the empty pail provided. Mix component A with a mixer for 2 minutes. Pour component B into component A using the appropriate mixing ratio of 2A:1B by volume. Mix both components for 2 minutes using a low-speed drill (300 to 450 rpm) to reduce air entrapment. During mixing, scrape the bottom and sides of the container with a wooden paddle at least once to ensure homogeneous mixing. Prepare only the quantity that can be applied during the life of the mixture.

When colorant addition is required

Mix each component separately for approx. 2 minutes to evenly place the suspended solids content. Empty component A into the empty pail provided. Add colorant to component A in the ratio of 1L per part A. Mix component A with the colorant using a blender for 2 minutes. Pour component B into component A using the appropriate mixing ratio of 2A:1B by volume. Mix the two components for 2 minutes using a low-speed drill (300 to 450 rpm) to reduce air entrapment. During mixing, scrape the bottom and sides of the container with a wooden paddle at least once to ensure homogeneous mixing. Prepare only the quantity that can be applied during the life of the mixture.

APPLICATION

Pour the product directly onto the floor, in several strips. Use a paintbrush to quickly make the trim. Then use a squeegee to spread the product, followed by a roller (from left to right, then from front to back). It's important to spread the product evenly over the entire surface, to avoid creating puddles.

RECOMMENDATIONS

- Do not touch up the product after more than 10 minutes.
- Wear spiked shoes when walking on the coated surface.
- Apply a coat of clear epoxy over dark or metallic colors.
- Apply a 2nd coat within 16 to 48 hours for a high-gloss, even finish. If the 2nd coat is to be applied more than 48 hours after installation, sand the surface with 60-grit sandpaper, to remove gloss and avoid adhesion problems.

For vertical or sloping surfaces, apply the product in thinner coats, otherwise it will tend to run.

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 must be <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.



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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.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of Passeport Elite. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. Passepor Elite assumes no legal responsibility for use upon these data. Passeport Elite assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.