

**TECHNICAL DATA SHEET**  
**INDUSTRIAL HIGH SOLID LOW-**  
**VISCOSITY EPOXY COATING**  
**PE700199**

**DESCRIPTION**

**Passeport Elite Industrial high solid Low-Viscosity epoxy coating** is a solvent-free, two component epoxy coating system. It was developed for systems that require a low viscosity epoxy coating for easier application. 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 and moisture and easy to clean.
- May apply several layers onto itself with excellent adhesion.
- Contains no solvent with a very low VOC content, allowing for interior application without harmful odors.
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate.

**TECHNICAL DATA**

|                                     |   |                |              |
|-------------------------------------|---|----------------|--------------|
| <b>Packaging</b>                    | 11,35L (3 gallons)  |                |              |
| <b>Color</b>                        | <b>Part A</b>   | <b>Part B</b>  | <b>Mix</b>   |
|                                     | Upon request  | Clear to Amber | Upon Request |
| <b>Recommended Thickness</b>        |   |                |              |
| Primer                              | 6-8 mils  |                |              |
| Finish Coat                         | 8-12 mils   |                |              |
| <b>Shelf Life</b>                   | 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. |                |              |
| <b>Mix Ratio, by volume</b>         | A: B = 2:1 (100:50)   |                |              |
| <b>Mix Ratio, by weight (grams)</b> |   |                |              |
| Clear                               | A: B = 100: 41-48   |                |              |
| Color                               | A: B = 100: 39-45   |                |              |
| <b>Pot Life (3 gallons) @ 23°C</b>  | 3-5 minutes   |                |              |
| <b>Gel Time (454g)</b>              | 40-50 minutes @ 25°C  |                |              |

**PROPERTIES @ 23°C (73°F) et 50% R.H.**

|                                  |                                |               |            |
|----------------------------------|--------------------------------|---------------|------------|
| <b>Solids Content, by weight</b> | 100%                           |               |            |
| <b>Solids Content, by volume</b> | 100%                           |               |            |
| <b>Specific gravity</b>          | <b>Part A</b>                  | <b>Part B</b> | <b>Mix</b> |
| Clear                            | 1.10 - 1.15                    | 0.9 - 1.0     | -          |
| Color                            | 1.15 - 1.20                    | 0.9 - 1.0     | -          |
| <b>Thinner Recommended</b>       | Xylene                         |               |            |
| <b>Recommended Thickness</b>     | 4 - 6 mils (400 - 600 pi2/gal) |               |            |
| <b>Diluant recommandé</b>        | Xylène                         |               |            |

**Waiting time/ Overcoat Ability**

|                               | <b>Temp. Du substrat</b> | <b>Minimum</b> | <b>Maximum</b> |
|-------------------------------|--------------------------|----------------|----------------|
| First layer after primer      | + 10 °C                  | N.A.           | N.A.           |
|                               | + 20 °C                  | 12 hours       | 2 days         |
|                               | + 30 °C                  | 6 hours        | 1 day          |
| Before applying a second coat | + 10 °C                  | 30 hours       | 3 days         |
|                               | + 20 °C                  | 24 hours       | 2 days         |
|                               | + 30 °C                  | 16 hours       | 1 day          |

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| <b>Curing details</b>  |                     |                      |                  |
|------------------------|---------------------|----------------------|------------------|
| <b>Substrate temp.</b> | <b>Foot Traffic</b> | <b>Light Traffic</b> | <b>Full Cure</b> |
| + 10 °C                | 30 hours            | 5 days               | 10 days          |
| + 20 °C                | 24 hours            | 3 days               | 7 days           |
| + 30 °C                | 16 hours            | 2 days               | 5 days           |

**\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity. \***

|   |                           |               |            |
|---|---------------------------|---------------|------------|
| <b>Bond Resistance (psi) , ASTM D4541</b> | >300 (substrate ruptures) |               |            |
| <b>Permeability (%), ASTM D570</b>        | 0,3%                      |               |            |
| <b>Hardness (Shore D), ASTM D2240</b>     | 85-90                     |               |            |
| <b>Abrasion Resistance, ASTM</b>          | 0,10g                     |               |            |
| <b>Viscosité @ 25 °C</b>                  | <b>Part A</b>             | <b>Part B</b> | <b>Mix</b> |
| Clear                                     | 1000 - 1200               | 125 - 225     | 900 - 1100 |
| Color                                     | 1200 - 1400               | 122 - 225     | 900 - 1100 |
| <b>Tensile strength (psi), ASTM D638</b>  | 6500                      |               |            |
| <b>Compressive Strength (psi/MPa),</b>    | 11000 - 12500             |               |            |
| <b>Elongation (%), ASTM D638</b>          | 6,7                       |               |            |
| <b>COV</b>                                | 45 g/L                    |               |            |

**\* Veuillez noter que le rendement indiqué est calculé pour des surfaces planes. Une surface poreuse ou imparfaite nécessitera plus de matériau pour couvrir la même superficie. \***

**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./inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch<sup>2</sup>). 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.

**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 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.

**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.

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**IMPORTANT NOTICE**

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