



Distributions Fillion Marquis International Itée

420 Industriel Blvd. Local 100, 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

Industrial Water Based

Epoxy 50% Solid

PE700297 - PE700298

DESCRIPTION

Passeport Elite Industrial Water Based Epoxy 50% Solid is a two-components waterborne epoxy system designed to prime wet and dry concrete and other types of substrates such as metal and others to improve adhesion on materials like epoxy, polyurethane and poly urea. It provides good corrosion resistance. It can be used as protective sealer and has very good abrasion resistance, very good durability and good chemical resistance. and abrasion resistance. This system complies with the Canadian Food Inspection Agency (CFIA).

PE700297 - Gloss finish

PE700298 - Matte finish

PRIMARY APPLICATIONS

- Assembly area
- Classrooms
- Public and commercial buildings
- Laboratories
- Car dealerships
- Mechanical rooms
- Health care facilities

ADVANTAGES

- Low VOC
- Fast dry speed
- Early water resistance
- Dense surface resistant to bacteria and moisture and easy to clean
- May apply several layers onto itself
- Contains no solvents, allowing for interior application without harmful odors
- Excellent adhesive properties, allowing application on many substrates
- Resists to many chemical products
- Can be used on damp or dry surfaces
- Can be used for water basins

TECHNICAL DATA

Packaging	11,35L / 3 gallons		
Colour	Part A	Part B	Mix
	Upon request	Amber	Upon request
Recommended Thickness			
Primer	4 - 6 mils		
Finish Coat	6 - 10 mils		
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.		

TDS

November 28, 2023

Revision #3

PE700297-298

Distributions Fillion Marquis International Itée

420 Industriel Blvd. Local 100, 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

Industrial Water Based

Epoxy 50% Solid

PE700297 - PE700298

Mix Ratio, by volume	A: B = 2:1 (100:50)
Mix Ratio, by weight	A: B = 100:48
Drying time	1-2 hours @ 25°C (77°F)

PROPERTIES @ 23°C (73°F) and 50% R.H.

Solids Content, by volume	Part A 50 - 60%	Part B 50 - 58%	Mix 55 - 60%
Solids Content, by weight	Part A 50 - 60%	Part B 50 - 58%	Mix 55 - 60%
Specific gravity	Part A 1.10	Part B 1.05	Mix -
Thinner Recommended	Water		
Mileage per gallon (4-6 mils thickness)	300 - 400 ft2 / gal		
Recoat Window	2 - 24 hours Pedestrian traffic 24 hours Heavy equipement traffic > 72 hours		
Viscosity @ 25°C (CPS)	Part A 150 - 250	Part B 220 - 280	Mix 200 - 300
Permeance ASTM E96 Water –Procedure B	12.6 perms at 4 mils dry 7.3 perms at 6 mils dry		
Water Absorption (%) ASTM D570	0,3%		
Abrasion resistance, ASTM D4060 Taber Abrader, CS-17 Wheel 1000g/1000 cycles	177 mg loss (Masonite structure)		
Resistance to direct impact (Asbestos cement CGSB 1-GB-71)	Not affected at 6 lb.-in		
Friction CGSB 1-GP-71 (125.1) 10000 cycles	Not affected		
Loss of luster before and after 10000 rubbing cycles, ASTM D523	No loss		
Adhesion to concrete, ASTM D4541	>350 lb./po2 (substrate failure)		
Static friction coefficient, ASTM C1028 5.3cm/minute			
	Dry surface	0.85	
	Wet surface	0.67	
VOC content (g/liter)	29 g/Liter		

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 surface area.

**Please note that the indicated viscosity is for clear product only.
Any addition of colorant may affect the viscosity.**



Distributions Fillion Marquis International Itée

420 Industriel Blvd. Local 100, 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

Industrial Water Based

Epoxy 50% Solid

PE700297 - PE700298

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. All cracks and substrate imperfections should be filled 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. All cracks and substrate imperfections should be filled and repaired prior to application.

MIXING

Materials should be pre-conditioned to a minimum of 15°C (59°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.

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 the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.



Distributions Fillion Marquis International Itée

420 Industriel Blvd. Local 100, 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

Industrial Water Based

Epoxy 50% Solid

PE700297 - PE700298

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 15°C / 30°C (59 °F / 86°F)
- Maximum relative humidity during application and curing: 80%
- 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 to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

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 Élite. 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. Passeport Élite assumes no legal responsibility for use upon these data. Passeport Élite 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.