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TECHNICAL DATA SHEET

INDUSTRIAL EPOXY
PE700231 - PE700232 - PE700607
PE700608 - PE700609

DESCRIPTION

Passeport Elite Industrial Epoxy is a two-component, 100% solids epoxy coating designed to maintain the integrity of concrete and other surfaces while providing an attractive appearance. It offers excellent mechanical and chemical properties.

Packaging:

2:1 Kit – 3 gallon – Clear — PE700231
2:1 Kit – 3 gallon – Grey 305 — PE700232
2:1 Kit – 3 gallon – Black 459 — PE700607
2:1 Kit – 3 gallon – Almond 431 — PE700608
2:1 Kit – 3 gallon – White 433 — PE700609

PRIMARY APPLICATIONS

- Assembly areas
- Classrooms
- Public and commercial buildings
- Laboratories
- Automotive dealerships
- Mechanical rooms
- Healthcare facilities

ADVANTAGES

- Dense surface resistant to bacteria and moisture
- Easy to clean and maintain
- Excellent adhesion to multiple substrates
- Ability to apply multiple coats with excellent intercoat adhesion
- Very good chemical resistance

TECHNICAL DATA

Packaging	2:1 Kit – 3 gallon (11,35L)			
Color	Partie A	Partie B		
	Upon request	Clear to amber		
Recommended Thickness	Couche d'apprêt (primer) : 6 to 8 mils			
	Couche de finition : 8 to 12 mils			
Covergae @ 8 mils	200 ft² / gal			
Mix Ratio (by weight)	A : B = 100 : 39 - 45			
Mix Ratio (by volume)	A : B = 2 : 1 (100:50)			
Gel Time (100 g @ 25°C / 77°F)	55 – 65 minutes			
Pot Life	15 - 20 minutes			
Solids Content by weight	100%			
Solids Content by volume	100%			
Thinner Recommended	Xylene			
Shelf Life	12 months (unopened, away from extremes)			
Viscosity @ 25°C (77°F) (cP)	Part A	Part B	Mix	
	Clear	1200 - 1400	200 - 400	1500 - 1800
	Colored	1500 - 1900	200 - 400	2300 - 2500
Specific Gravity	Part A	Part B		
	Clear	1.10 - 1.15	0.9 - 1.0	
	Colored	1.15 - 1.20	0.9 - 1.0	

PROPERTIES @ 23°C (73°F) and 50% R.H.

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Bond Strength (ASTM D4541)	>300 psi (substrate rupture)		
Water Absorption (ASTM D570)	0.3 %		
Abrasive Resistance (ASTM D4060)	0.10 g (CS17, 1000g, 1000 cycles)		
Tensile Strength (ASTM D638)	6500 psi		
Compressive Strength (psi) (ASTM D695)	12000 – 13000 psi		
Coefficient of Friction (ASTM D1894)	0.5 - 0.7		
Fire Rating (CAN/ULC S102 / ASTM E84)	Flame Spread: 5; Smoke Developed: 94 (Class A)		
Hardness (Shore D)	80		
Curing details			
Temperature	Foot Traffic	Light Traffic	Full Cure
10°C (50°F)	N.A	N.A	N.A
20°C (68°F)	1 day	3 days	7 days
30°C (86°F)	16 hours	2 days	5 days
Recoat Window			
Temperature	Minimum	Maximum	
10°C (50°F)	N.A	N.A	
20°C (68°F)	8 hours	24 hours	
30°C (86°F)	6 hours	24 hours	
VOC (g/L)	31 - 45		

SURFACE PREPARATION

Old Concrete

Concrete surface must be cleaned and mechanically prepared using shotblasting 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. A Passeport Elite primer is suggested prior to application on porous concrete substrates. All cracks and substrate imperfections should be filled and repaired with the Passeport Elite crack filler 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 and or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. A Passeport Elite primer should be used to seal porous concrete surfaces prior to application. All cracks and substrate imperfections should be filled and repaired with the Passeport Elite crack filler prior to application.

MIX

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 2 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 the thoroughly mixed product at the desired thickness using a rubber rake, followed by back rolling to ensure a smooth, even, and uniform coating.

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.

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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.
- Slight color variation may occur between different batch numbers of pre-tinted epoxy.

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 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.