DIRECT EPOXY SUPPLY

Epoxy Crack Repair

DESCRIPTION

Epoxy Crack Repair is a 100% solids, two-component, self-leveling epoxy coating designed to restore concrete floors and enhance their appearance. It can be pigmented or combined with metallic powders to achieve opaque, high-gloss decorative finishes. The product exhibits excellent mechanical strength, chemical resistance, and long-term durability, all while maintaining its artistic finish. This system is suitable for industrial and commercial applications where aesthetics and performance are both essential.

ADVANTAGES

- Dense surface resistant to bacteria and moisture
- Easy to clean and maintain
- Excellent adhesion to multiple substrates
- Multiple layers can be applied with excellent inter-coat adhesion

PRIMARY APPLICATIONS

- Industrial facilities
- Commercial spaces
- Decorative and metallic floors
- Institutional buildings
- Food-safe environments (CFIA compliant)

Technical Data

Packaging	1.5 Gal
Color	Part A: Upon Request Part B: Clear to Amber
Mix Ratio (by volume)	A : B = 2 : 1 (100:50)
Mix Ratio (by weight)	A : B = 100 : 46
Gel Time (100 g @ 25°C)	55 – 65 minutes
Solids Content	100% by weight and volume
VOC (g/L)	Not specified
Thinner Recommended	Xylene
Shelf Life	12 months (unopened, away from extremes)
Viscosity @ 25°C (cP)	Clear: A: 1700 – 1900, B: 150 – 300, Mix: 1500 – 1800 Colored: A: 2500 – 3200, B: 150 – 300, Mix: 1300 – 1600
Specific Gravity	Clear: A: 1.14 – 1.16, B: 0.9 – 1.0 Colored: A: 1.15 – 1.20, B: 0.9 – 1.0

Physical Properties @ 23°C (73°F), 50% R.H.

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 (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)

Curing Details

Temperature	Foot Traffic	Light Traffic	Full Cure
10°C (50°F)	1 day	3 days	7 days
20˚C (68°F)	16 hours	2 days	5 days
30°C (86°F)	12 hours	24 hours	5 days

Recoat Window	Minimum	Max
10°C (50°F)	8 hours	24 hours
20˚C (68°F)	6 hours	24 hours
30°C (86°F)	6 hours	24 hours

DIRECT EPOXY SUPPLY

Epoxy Crack Repair

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 and repaired with Epoxy Crack Repair 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 with Epoxy Crack Repair prior to application.

MIXING

Materials should be pre-conditioned to a minimum of 10°C 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.

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.

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 DIRECT EPOXY. 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. DIRECT EPOXY. assumes no legal responsibility for use upon these data. DIRECT EPOXY. 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.