PE-CF ULTRA: EPOXY CRACK FILLER

TECHNICAL DATA SHEET

DESCRIPTION

PE-CF ULTRA is a 100% solids, non-shrink, non-sag, moisture insensitive, two-component modified high-modulus smooth epoxy paste adhesive formulated to adhere and cure on damp or dry surfaces.

USES

- Used to seal the surface opening of cracks and to secure injection ports on concrete and wood prior to pressure injection grouting.
- Used on non-structural and structural grouting projects.
- Used to seal routed crack surfaces on non-moving cracks.

ADVANTAGES

- Paste consistency ideal for horizontal, vertical and overhead crack sealing.
- Very rapid curing for faster pressure injection grouting.
- Cures and adheres on dry or damp surfaces.
- Injection may proceed after approximately 30 minutes.
- Convenient 2 to 1 volume mix ratio.
- Excellent adhesion to wood, masonry, concrete, steel and most building substrates.
- Applicable / Curable down to 200°F (-6°C)

TECHNICAL DATA

PACKAGING	1 US gal kit (3.78 L) or 15 US gal kit (56.7 L)
COLOR	Concrete Grey
MILEAGE PER GALLON	Varies according to application
SHELF LIFE	1.5 years in original unopened containers. Cartridges 1 year.
MIX RATIO, BY VOLUME	A:B = 2:1
MIX RATIO, BY WEIGHT	A:B = 100:41
POT LIFE 16 OZ (454 G)	3-5 minutes @ 73°F (23°C)
VOC	67.8 g/L

PROPERTIES
@ 73°F (23°C) AND 50% R.H.

SOLIDS CONTENT, BY WEIGHT	100%
DENSITY (KG/L)	PART A: 1.12 kg/L PART B: 0.93 kg/L
THINNER RECOMMENDED	Xylene
COATING WINDOW	2-3 hours

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

	PART A	PART B	MIX
VISCOSITY @ 77°F (25°C)	150000-180000	280000-300000	150000-180000
TENSILE PROPERTIES (ASTM D638) – 5 DAYS	3,400 psi (23.4 MPa)		
FLEXURAL STRENGTH (ASTM D790) – 5 DAYS	4,600 psi (31.7 MPa)		
ELONGATION AT BREAK	1.1 %		

* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. *

SURFACE PREPARATION

Concrete, stone, wood and other substrates must be clean and sound. Remove dust, grease, waxes, oils, concrete laitance, curing compounds, coatings and all contaminants by mechanical means such as bush hammering, grinding or abrasive blasting. Apply epoxy before the cleaned substrate becomes contaminated.

MIXING

Pre-mix each component. Place one part component “B” into 2 parts component “A” and mix for 1 minute with a low speed paddle attached to a drill (300-600 rpm) until a uniform color develops with out any streaks. Mix only that quantity that can be used within its potlife. Smaller quantity requirement may be mixed with hand tools.

APPLICATION

Surface Seal: 1. Set injection ports over the cracked surface. 2. Apply the mixed epoxy sealer “CrownCrack Sealer”, to the cleaned surfaces to be sealed and around the ports. Spread the product evenly over the crack, on each side of the crack, and down into the upper surface area of the crack for best sealing results. 3. When the tack-free cure development has occurred the crack may be pressure grouted.
Routed Crack Sealing: On cracks that do not move fill the routed void with mixed epoxy and trowel the surface smooth to the adjacent substrate edges. The surface may be used upon the epoxy developing its tack-free cure.

CLEANING

Components “A” & “B” - Ventilate area. Control spills. Collect with absorbent material. Disposal - Dispose in accordance with current, applicable local, state, and federal regulations

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 50°F / 86°F (10°C / 30°C)
- Maximum relative humidity during application and curing: 85 %
- Substrate temperature must be 5.5°F (3°C) above dew point measured
- 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 with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release 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. Predict suitable ventilation.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

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