

CrownCrack Sealer

Product Description Sheet No. 120

Rapid Curing High Strength Epoxy, Smooth Paste Adhesive Bonds Injection Ports to Cracked Concrete and Wood Seals Crack Opening and Fills Surface Routed Non-Moving Cracks

Description

CrownCrack Sealer, Product No. 120 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.

Use

- 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 200F (-6°C)

Typical Data for CrownCrack Sealer

Material and curing conditions at 73°F (23°C), 50% R.H unless noted.

Color	Concrete Grey
Potlife	3-5 minutes
Consistency	Paste
Non-Sag	Neat ½ in.
Tack Free Time	
@ 20°F	6 – 7 hrs
@ 40°F	3 hrs
@ 55°F	30 – 60 mins.
@ 73°F	30 mins.
Tensile Properties (ASTM D638) – 5 Days	
Tensile Strength	3,400 psi (23.4 MPa)
Elongation at Break	1.1 %
Flexural Properties (ASTM D790) – 5 Days	
Flexural Strength	4,600 psi (31.7 MPa)
Tangent Modulus of Elasticity	1.6 X 10 ⁶
Water Absorption (ASTM D 570)	
24 hours	Max. 0.45%
Deflection Temperature (ASTM D648)	
5 days	Fiber Stress Loading = 264 psi; 140°F
Shelf Life	1.5 years in original unopened containers. Cartridges 1 year.

How to Apply CrownCrack Sealer

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.

Limitations

- Minimum substrate & ambient temperature is 200F (-6°C)
- **DO NOT THIN** - solvents will prevent proper cure.
- **DO NOT PLACE EPOXY IF ICE IS PRESENT.**

Preconditioning Epoxy

When temperatures drop, it becomes harder to spread the epoxy. To improve the flow-ability and curing time at lower temperatures preheat each epoxy component to 900°F (32° C) before mixing. Caution the working time (potlife) will be reduced by about 50%. Preheat product before mixing and use when temperature is below 65°F (18°C). It does not affect the epoxy when a static mixing tube is used.

Mechanical 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.

Cartridge Mixing

Remove nut and plugs on dispersing end of cartridge. Place static mixing tube (nozzle) on end of cartridge unit, slip nut over mixing tube and tighten nut by hand to secure mixing tube in place. Dispense at least one static mixing tube quantity full of epoxy or a sufficient amount until one color without streaks develops to start the correct mixing process. Immediately place the epoxy. **Option:** The premeasured two components may be pumped directly out of the cartridge unit without a static mixing onto a piece of cardboard, mixed with a hand tool and immediately placed. No nozzle is required.

Application Methods

- **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.

Caution

Component "A" - Irritant

Contains epoxy resins. Prolonged contact with skin may cause irritation. Avoid contact with eyes.

Component "B" - Corrosive

Contains aliphatic and other amines. Contact with skin may cause severe burns. Avoid eye contact. Product is a strong sensitizer

Important Information

Use of safety goggles, chemical resistant gloves, adequate ventilation. NIOSH/MSHA approved respirator is recommended when ventilation is not adequate.

Clean Up

Components "A" & "B" - Ventilate area. Control spills. Collect with absorbent material.

Disposal - Dispose in accordance with current, applicable local, state, and federal regulations.

First Aid

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. For respiratory problems, remove person to fresh air. Contact Physician Immediately. Wash clothing before re-use.

Consult Safety Data Sheet for More Information before use.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF
CHILDREN
KEEP CONTAINERS TIGHTLY
CLOSED

LIMITED WARRANTY - "Crown Polymers Corp. warrants its products to be free of manufacturing defects, to be of good quality, and that they will meet Crown Polymers current physical published properties when applied in accordance with Crown Polymers written directions and tested in accordance with ACI, ASTM and Crown Polymers Standards. Product proved to be defective will be replaced. **There are no other warranties by Crown Polymers Corp. of any nature whatsoever, expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product.** Crown Polymers Corp. shall not be liable for damages of any sort, including remote or consequential damages, resulting from any claimed breach of any warranty, whether expressed or implied, from any other cause whatsoever. Crown Polymers will not be responsible for use of this product in a manner to infringe on any patent held by others."

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