

CrownFlex Joint Sealer

Product Description Sheet No. 505



Load Bearing Joint Filler That Protects Concrete Floors Subjected to Heavy Duty Commercial and Industrial Abrasive Traffic Uses in a Pourable or Pumpable Consistency

DESCRIPTION

CrownFlex Joint Sealer, Product No. 505 is a 100% Solids, Moisture-insensitive, Non-shrink, 2 Component Modified Epoxy Joint Filler.

WHERE TO USE

In Dry or Damp Concrete Saw Cut or Control Joints for Foot, Vehicular Pneumatic Tire and Hard Plastic Wheel Traffic.

Typical Industries of Use

- Food Processing
- Pharmaceutical
- Manufacturing
- Commercial Buildings
- Parking Decks

ADVANTAGES

- Available in Large Volume Cartridges –0.69 Gals
- Available in Bulk Containers
- Good Working Time
- Nearly No Odor
- No VOC's – 100% Solids
- Non-Shrinking
- Moisture-insensitive Formula
- Fast Cure Rate
- Cures Down to 40°F (4°C)
- Excellent Strength Properties
- High Load Bearing Strength
- Excellent Impact Resistant
- Chemical and Waterproofs
- Easy to Place and Shave
- Cost Effective Joint Sealing System

TYPICAL DATA for CrownFlex Joint Sealer

(Material and Curing Conditions at 73°F unless noted, 50% R.H.)

COLOR 10 Standard Colors **VISCOSITY** 900-1,200 cps.

POTLIFE 10-14 minutes **CONSISTENCY** Flowable
Fills Void Leaving Small Bead

TACK-FREE TIME

Substrate Temperature	40°F *	73°F	90°F
	8 - 10 hrs.	4 -5 hrs.	3 - 3.5 hrs.

TENSILE PROPERTIES (ASTM D 638) 7 Days

Tensile Strength	1,000 psi
Elongation at Break	80 - 100 %

COMPRESSIVE STRENGTH (ASTM D 695)

	40°F *	73°F	90°F
1 Day	1,100 psi	1,200 psi	1,400 psi
7 Days	2,100 psi	2,200 psi	2,200 psi

PULL OFF STRENGTH - ADHESION TO CONCRETE (ASTM D 4541)

	40°F *	73°F	90°F
7 Days	245 psi	280 psi	290 psi

HARDNESS, SHORE D (ASTM D 2240)

7 Days 35 - 45

WATER ABSORPTION (D 570)

7 Days 0.60%

SHELF LIFE 1.5 years in original unopened containers

PACKAGING **Pails** - 2, 4 & 10 Gallon Units (231 IN³/Gal)
Cartridge Package – 160 in³ (0.69 Gals)

CARTRIDGE PUMP UNIT - The Jake Power Cartridge Pump Unit Mixes the Epoxy Through a Static Mix Tube Eliminating Potlife and Measuring Problems.

VOLUME MIX RATIO 1 TO 1

* Pre-conditioned epoxy to 90°F before mixing.

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How to Apply CrownFlex Joint Sealer

SURFACE PREPARATION

All inner joint surfaces must be free of dust, coatings, grease, sealants, waxes and all other contaminants and have all deteriorated concrete removed to a sound and clean surface. Typical removal methods include dust-free abrasive blasting or enlarging joint width by saw cutting. Protect joints from contamination after cleaning and prior to product placement.

JOINT DESIGN

Follow ACI's Standard Joint Specification for sizing and filling the joint depth to 25% of the concrete thickness. If the crack at the bottom of the joint is open, materials such as backer rod may be used to prevent epoxy from seeping out of joint void to be filled.

PRECONDITIONING POLYMER

When temperatures drop polymers typically thicken and it becomes harder to pour the product. When the temperatures are warmer, they typically become thinner. To improve the flowability before mixing product precondition product temperature at 20°C (73°F) or higher. When the substrate temperatures are 15°C (60°F) or lower preheat each epoxy component to 90°F before mixing. Caution – when preheating epoxy to be applied by pouring method the potlife will be reduced by about 50%. When packaged in cartridges the epoxy is mixed through a static mixing tube and there is no potlife issue to be concerned about..

MIXING FOR POURING METHOD

Pre-mix Component "A", (when pigmented) then pour Component "B" into "A" and mix for 60 seconds (until one even colors develops) with a low speed paddle attached to a drill (400-600rpm). The mixed product is ready for immediate placement.

NO PREMIXING IS REQUIRED FOR PRODUCT PACKAGED IN CARTRIDGES.

COVERAGE

Product coverage is depended upon the width, depth, and length of the joint to be filled. One gallon contains 231 in³ and one cartridge unit contains 160 in³ of mixed product.

APPLICATION METHODS

The product has a convenience mix ratio of 1 to 1 by volume and maybe poured or pumped into the joint void. For additional equipment information, contact Crown Polymers.

LIMITATIONS

- Substrate Temperature Must be 4°C (40°F) or Above.
- Minimum Application Temperature is 4°C (40°F).
- DO NOT APPLY on WET SUBSTRATE.
- DO NOT THIN – Solvents will prevent proper cure.
- Do Not Add Aggregate to Product or Place Aggregate in Joint Before Filling Joint.
- Pre-condition Polymer as Needed.

CAUTION

Component "A"- Irritant

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

Component "B" - Corrosive

Contains 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 and NIOSH/MSHA approved respirator is recommended.

CLEAN UP

In case of spills wear suitable protective equipment, contain spill, and collect with absorbent material, place in suitable container. Ventilate area. Avoid contact. Dispose according to 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 Material Safety Data Sheet for More Information

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

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