

# CrownFlex™ Joint Sealer Gel Grade

Product Description Sheet No. 501

## Load Bearing Joint Filler that Protects Concrete Floors Subjected to Heavy Duty Commercial and Industrial Abrasive Traffic Uses in a Trowelable Gel

### Description

**CrownFlex™ Joint Sealer Gel Grade**, Product No. 501 is a 100% Solids, Moisture-insensitive, Non-shrink, Two Component Modified Epoxy Gel Consistency Joint Filler.

### Advantages

- Trowelable or Pumpable Gel Grade
- 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 Resistance
- Chemical and Waterproofs
- Easy to Place and Shave
- Cost Effective Joint Sealing System

### Where to Use

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

### Typical Industries of Use

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

### Typical Data for CrownFlex Joint Sealer Gel Grade

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

**COLOR** 10 Standard Colors

**POTLIFE** 10-14 minutes      **CONSISTENCY** Non-Sag Gel

#### TACK-FREE TIME

Substrate Temperature	40°F *	73°F	90°F
	8 - 10 hrs.	6 - 8 hrs.	4 - 6 hrs.

#### TENSILE PROPERTIES (ASTM D638) 7 Days

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

#### COMPRESSIVE STRENGTH (ASTM D695)

	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 D4541)

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

#### HARDNESS, SHORE D (ASTM D2240)

7 Days 35 - 45

#### WATER ABSORPTION (D570)

7 Days 0.60%

**SHELF LIFE** 1.5 years in original unopened containers

**VOLUME MIX RATIO** 1 to 1

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

# How to Apply CrownFlex Joint Sealer Gel Grade

## 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 trowel or pump the product. When the temperatures are warmer, they typically become thinner. To improve the flow-ability 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 trowel or pump method the pot life will be reduced by about 50%.

## 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 (400-600 rpm). The mixed product is ready for immediate placement.

## Coverage

Product coverage is depended upon the width, depth and length of the joint to be filled. One gallon contains 231 in3

## Application Methods

The product has a convenience mix ratio of 1 to 1 by volume and may be troweled 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/OSHA 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 Safety Data Sheet for More Information*

**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 published physical 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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