

CrownCrack 7150

Product Description Sheet No. 7150

Polyurethane Alloy Concrete Repair

Description

CrownCrack 7150 is a two component, liquid applied, aromatic, polyurethane-alloy specifically designed to repair concrete and masonry substrates. The new surface will protect concrete from weather, corrosion, erosion, freeze/thaw spalling and chemical attack

Advantages

- Waterproofing
- Excellent Abrasion Resistance
- Good Chemical Resistance
- Repairs Can be made in Hot or Cold Weather
- Rapid Cure Time Allows Traffic to Resume in 30 Minutes

Typical Uses

- Hairline Cracks
- Thin, Wide or Deep Cracks

Colors

Part-A: Yellow, Part-B: Blue

Packaging

2 gallon kit: One 1 gallon can Part-A and One 1 gallon can Part-B

10 gallon kit: One 5 gallon pail Part-A and One 5 gallon pail Part-B

Contact Crown Polymers for availability.

Surface Preparation:

Hairline Crack Repair: Blow out the cracks with dry compressed air to remove loose and unsound material.

Large Crack Repair: Remove loose and unsound material in the crack by blowing the cracks with dry compressed air. Fill the cracks with sand that is at least 20 mesh or larger.

Application:

The volume mix ratio is 1 part Part-A to 1 part Part-B.

CrownCrack 7150 should be applied using a proportioning dispensing system. This type of system transfers, meters, and mixes the co-reactive Part-A and Part-B components at a very high rate and at the required proportions. It transfers from five or fifty-five gallon containers, through proportioning pumps at the specified ratio of 1:1. Both components are pumped through a disposable static mixing tube with restrictor plugs. The combined mixture can then be dispensed into the gravel or sand prepared crack.

Material left in the static mixing tube will thicken in approximately 2-3 minutes and solidify in 6-10 minutes. Static mixing tube should then be discarded.

Technical Data (Based on draw down film)

Hardness, ASTM D-2240	70 ± 5 Shore D
Tensile Strength, ASTM D-412	4000 ± 400 psi 27.6 ± 2.7 MPa
Ultimate Elongation, ASTM D-412	7 ± 0.5%
Compressive Strength **, ASTM C-42	4750 ± 400 psi 32.7 ± 2.7 Mpa
Specific Gravity	
Side-A	1.106
Side-B	0.947
Mixing Ratio by Weight	117A : 100B
Mixing Ratio by Volume	1A : 1B
Viscosity at 75°F (24°C)	
Side-A	20 ± 5 cps
Side-B	20 ± 5 cps
Pot Life at 75°F (24°C), 50% R.H.	180-240 seconds
Gel Time at 75°F (24°C), 50% R.H.	3-4 minutes
Flash Point	>150°F >65.6°C
Bond Strength to Concrete	Excellent
Thermal Compatibility to Concrete	Good
**Compressive strength was checked on composite of Silica sand (12 mesh, 6.5 Moh's minimum hardness) and 18 to 20% of CrownCrack 7150 in a 4" X 8" cylinder.	

Chemical Resistance (Based on ASTM D-814)

CrownCrack 7150 was unaffected by the following chemicals:

Acidic Chemicals
Acetic Acid, 1%
Acetic Acid, 10%
Hydrochloric Acid, 1%
Hydrochloric Acid, 10%
Sulfuric Acid, 1%
Sulfuric Acid, 10%
Basic Chemicals
Ammonium Hydroxide, 1%
Ammonium Hydroxide, 10%
Oils, Fuels and Other Chemicals
Hydraulic Oil
Motor Oil
Unleaded Gas (Regular)
Unleaded Gas (Premium)
Hexane
IPA
MIBK
Xylene

Curing:

CrownCrack 7150 is a rapid cure material that will be dry to touch in approximately 8-20 minutes.

CrownCrack 7150 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time.

Low temperature and/or low humidity will extend the cure time.

Equipment Cleanup:

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage:

CrownCrack 7150 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations:

Surfaces must be dry, clean and free of foreign matter. Should be used in well-ventilated areas due to its strong odor. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance. CrownCrack 7150 is for concrete crack repairs only. Slippery when wet. Refer to general guidelines for more information.

Warning:

This product contains Isocyanates and Solvent.

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."