

## HI-Tek Polymers 1400 T-Polyurea Filler and Caulk

**DESCRIPTION:** 1400 T-Polyurea Filler and Caulk is a two component polyurea/amine blend that provides a hard, tough surface. Excellent as crack and joint filler mixed with or without aggregates. PFAC II is in-line blended utilizing a two component mixer apparatus allowing the applicator to use amounts ranging from a few ounces to nearly continuous feed. 1400 T-Polyurea Filler and Caulk (I & II) are available in Black, Gray and Clear. It NEEDS NO PRIMER and provides excellent weather and water resistance. Good for both interior and exterior.

**USES:** 1400 T-Polyurea Filler and Caulk can be used as a concrete crack and joint filler for various applications including as in truck bed patch, rail road car patch, wood dry kiln patch, equipment seam repair and patch material, and brick paver re-grouting material. Excellent choice for heavy use environments and for adhesion to wood, tiles, concrete, asphalt, glass, brick, shingles, metals or other clean surfaces . Consider PFAC I – a 2:1 blend-when low temperature installation or higher operating temperature resistance is required

**APPLICATION:** Clean and properly prepare surface. Steel should be sand blasted, concrete should be chemically cleaned or mechanically abraded wood should be sealed against moisture migration. Floor cracks and holes should be thoroughly cleaned with an acid detergent – XA-201 is a good choice – and/or a good degreaser – CD-103 is a good choice or mechanically abraded. Consult us for chemical resistance recommendations. Available in a two component “caulk gun” system for minor repairs, and joints as well as in bulk for two component mixing apparatus.. 1400 T-Polyurea Filler and Caulk are open for wheeled traffic at 34F in 3.5 hours, at 0F in 3.5 hours and –20F in less than 20hours. It has good thermal resistance to 300F and excellent thermal cycling resistance.

**Surface Preparation:** Applications of non-breathing surface over concrete is vulnerable to high moisture vapor emissions (MVE). This is typically measured with an Anhydrous Calcium Chloride test kit meeting ASTM F-1869 where results are reported in pounds of water per 1,000 square feet per 24 hours. The Rubber Flooring Manufacturers Association (RFMA) has established a “safe” limit of 3 pounds or less. The most current test to evaluate concrete is ASTM F-2170. Results greater than 80% relative humidity in the concrete requires special treatment. **Primer is not required.**

## SPECIFICATIONS

PFAC I -HARDNESS SHORE D = 65 ( A=95)	PFAC II---Hardness Shore D=45
OIL RESISTANCE- EXCELLENT	WATER RESISTANCE- EXCELLENT
UV RESISTANCE- GOOD	
FLEXIBILITY < 400%	HEAT RESISTANCE – TO 300F
SET TIME – 1 MIN	ODOR – NONE
ADHESION: > 350PSI ( concrete fails)	FLASH POINT: +200F
CHEMICAL RESISTANCE- EXCELLENT	TENSILE STRENGTH > 1000 PSI
SOLIDS 100%	USDA- ACCEPTABLE

**Hi-Tek Polymers, Inc., Elgin, Illinois**

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