

## PP-CF: POLYUREA CRACK FILLER

# TECHNICAL DATA SHEET

### DESCRIPTION

PP-CF is a two parts, high penetration, fast setting, hybrid polyurea for repairing and re-building damaged concrete. The product is a 1:1 ratio, easy to mix system that is 98 % solids and VOC compliant. The PP-CF can be used to set anchor bolts, repair damaged control joints, fill spalling, and rebuild vertical curbing and steps. Sand or gravel can be added to extend the volume of the material and acts as filler for repairing large spalls, holes and cracks.

### WHERE TO USE

- Commercial freezer repairs
- Aircraft hangar floors
- Low temperature equipment
- Maintenance facility floors
- Garage floors
- Industrial shop floors
- Car washes or wash bays
- Forming/ rebuilding stairs and steps
- Leveling and grade matching
- Bridge/ street repairs
- Concrete polishing and other coating applications
- Non-moving control joint fill

### ADVANTAGES

- Application temperature between 23°F to 100.4°F (-5°C to 38°C)
- Product cures in 10 minutes @ 71.6°F (22°C) with excellent adhesion
- Self-leveling and self-priming
- Ready to service in 10 to 20 minutes
- Easy to mix 1:1 ratio by volume
- Highly chemical resistant
- Excellent for industrial floor repairs subject to forklift traffic and harsh conditions

### TECHNICAL DATA

<b>PACKAGING</b>	2 US gal kit (7.57 L)
<b>COLOR</b>	PART A: Black PART B: Amber MIX (liquid/cured): Black/Grey
<b>SHELF LIFE</b>	12 months in original unopened factory sealed containers. Store in dry cool place between 50 and 89°F (10 and 32°C). Keep out of direct sunlight and away from fire hazards.
<b>MIX RATIO, BY VOLUME</b>	A:B = 1:1
<b>MIX RATIO, BY WEIGHT</b>	A:B = 100:118
<b>POT LIFE 3.5 OZ (100 G)</b>	2-3 minutes @ 77°F (25°C)
<b>CURE TIME</b>	10-15 minutes @ 71.6°F (22°C)

## PROPERTIES

@ 73°F (23°C) AND 50% R.H.

<b>DENSITY (KG/L)</b>	PART A: 0.94    PART B: 1.12    MIX: 1.11
<b>DRYING TIMES (RELATIVE HUMIDITY 72°F (22°C) – 54%)</b>	Hard Dry: 5-10 minutes    Foot Traffic: 10 minutes    Vehicle Traffic: 30 minutes
<b>TENSILE STRENGTH (PSI), ASTM D638</b>	4500-4800
<b>ELONGATION (%), ASTM D638</b>	6-8%
<b>BOND STRENGTH (PSI), ASTM D4541</b>	1900-2300
<b>COMPRESSIVE STRENGTH (PSI) LIQUID, ASTM C109</b>	5600
<b>HARDNESS (SHORE D), ASTM D2240</b>	68-72
<b>VISCOSITY (CPS) @ 77°F (25°C)</b>	PART A: 15-30    PART B: 15-30    MIX: 15-30

\* Times are approximate and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.

\* The indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage. \*

## SURFACE PREPARATION

The surface must be cleaned before the application of the product. BLASTRAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminants. Any oils and fats must be removed prior to product application. The surface must be primed and allowed to dry before the application of the product. Compression resistance of concrete must be at least 25 MPa (3625 lbs/inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs/inch<sup>2</sup>).

## MIXING

Mix each component separately. Pour component B into component A using the proper mixing ratio. Mix together both components for not more than 30 seconds. Only prepare quantity that may be applied during pot life.

## APPLICATION

Apply and pour the mixed product on the prepared surface.

## CLEANING

Clean all application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

## RESTRICTIONS

- Minimum/Maximum temperature of substrate: 50°F / 86°F (10°C / 30°C)
- Maximum relative humidity during application and curing: 85 %
- Substrate temperature must be 5.5°F (3°C) above dew point measured
- Humidity content of substrate must be < 4 % when coating is applied
- Avoid exterior use on substrates at ground level

## HEALTH AND SAFETY

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In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. For more information, consult the material safety data sheet.

Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation.

*\*Consult the material safety data sheet for further information.\**

## IMPORTANT NOTICE

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