



# 1003FS™ – Crack Paste | FAST SET, LOW ODOR, EPOXY PASTE & CRACK SEALER

Manufactured by Polygem, 5600 Lower Macungie Rd. | Macungie, PA 18062 | 630-231-5600 | Made in USA

**POLYGEM**  
polygem.com

TB – TECHNICAL BULLETIN

## PRODUCT DESCRIPTION

**1003FS™ Epoxy Crack Paste** is a specially formulated low-odor epoxy paste that will provide a fast setting compound for sealing of cracked concrete prior to injection with epoxy or urethane resin systems. 1003FS has an easy to mix 1 A to 1B by volume mix ratio and will be ready for injection in as little as 25 minutes. 1003FS is ideal for setting of injection ports and can be used to patch concrete prior to top-coating. It is waterproof and will bond to wet surfaces and can even cure underwater. 1003FS is a thick non-sag paste compound that will allow for vertical and overhead patching.

## ADVANTAGES

- **Easy to Mix**
- **Fast 7 Minute Working Time**
- **30 Minute Cure**
- **Will Bond to Damp Surfaces**
- **No VOCs or Solvents**

## RECOMMENDED USES

**1003FS Epoxy Crack Paste** is used primarily for the setting of injection ports and sealing crack surfaces. It is ideal to use for:

- **Epoxy & Urethane Injection for repairing Concrete**
- **Sea Wall or Underwater Concrete Repair**
- **Aquarium & Pool Repairs**

## PACKAGING

Available in a **case of 12 – 22oz. Cartridges**, or as a **2 Gallon, 4 Gallon, or 2 Drum Kit**.

## SHELF LIFE – STORAGE & HANDLING

Unopened containers are guaranteed for 14 months when stored at 60–80°F (16–22°C).

For best results, purchase quantities suited to your project and use material soon after receipt.

Storage above 85°F (29°C) may reduce shelf life. Keep from freezing.

## LIMITATIONS

**DO NOT** apply over 5/8 in. (16 mm) thick per layer. Additional thickness can be built up with multiple coats. Allow prior coat to harden and cool to touch before the application of the next layer.

Not for use on wet or oily surfaces.

**DO NOT** install when surface temperature is below 35°F (7°C) or above 100°F (38°C).

During damp and/or cool conditions 1003FS Epoxy Crack Paste will cure slower. **DO NOT** put into service until fully cured.

## CAUTIONS

Wear chemical goggles and NIOSH approved respirator. Wear proper protective clothing and gloves to prevent direct contact of resins. Consult Material Safety Data Sheet for full listing of protective requirements.

**1003FS Crack Paste** may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. For professional use only. Keep out of reach of children.

## SURFACE PREPARATION

Surface must be free of all contaminants before proceeding. Remove all loose or flaking concrete with a wire brush. Dirt, grease and flaking paint must also be removed prior to application. Sandblasting or grinding is recommended.

## APPLICATION INSTRUCTIONS WEAR GLOVES

**1. Measure & Mix-** After pre-mixing Parts A & B, measure out equal parts 1A:1B by volume. Combine and mix material thoroughly until “streak free” and uniform in color. **DO NOT** mix more than can be applied in 5 minutes.

**NOTE:** 1003FS Epoxy Crack Paste has many uses. How you apply it will depend on your intended use of the material.

**2. Crack Sealing-** When using as a temporary crack sealer for mounting injection ports, properly mixed 1003FS Epoxy Crack Paste should be applied lightly around the perimeter of the injection ports. The paste should fill the small holes in the base of the port, but not the large central hole which must remain open. Mount ports over the crack & allow them to set for 30 minutes before applying more paste on and around the base of the ports and lightly sealing the crack to be injected. The first port should be placed 6 in. (152 mm) from the floor with a maximum spacing of 12 in. (305 mm) between the ports. The Epoxy Crack Paste should be a minimum of 2 in. (51 mm) wide centered on the crack and applied with a mixing stick or putty knife.

**3. Patching & Repair-** Apply mixed epoxy evenly over surface to be patched or repaired. Use a trowel or putty knife dipped in water to spread and achieve a smooth surface. More water can be used while spreading as needed. Allow patch to cure the full 30 minutes before sanding or painting.

## TECHNICAL DATA

**All values measured after 7 days at 73°F (23°C).**

### TYPICAL PROPERTIES

<b>Pot Life: (100 g - ASTM D-2471)</b> .....	7 min.
<b>Mix Ratio: (By Volume)</b> .....	1A to 1B
<b>Tack Free Time: (73°F - 23°C - 100 gms)</b> .....	10 min.
<b>Full Cure Time:</b> .....	30 min.
<b>Compressive Strength: (ASTM D-695)</b> .....	7,075 psi
<b>Compressive Modulus: (ASTM D-695)</b> .....	144 ksi
<b>Tensile Strength: (ASTM D-638)</b> .....	807 psi
<b>Elongation: (ASTM D-695)</b> .....	0.1%
<b>Specific Volume: (ASTM D792 - Mixed)</b> .....	22.25 cu in/lb
<b>Heat Deflection Temp: (ASTM C-882)</b> .....	135-140°F (57-60 °C)
<b>Shore D Hardness: (ASTM D2240)</b> .....	80 D
<b>Mixed Viscosity:</b> .....	Heavy Paste
<b>Mixed Color:</b> .....	Light Grey
<b>Coverage: (per gallon @1/8 in.   3.17 mm.)</b> .....	12.8 sq. ft. (1.189 sq. m.)

## POLYGEM LIMITED WARRANTY:

Polygem warrants that during the shelf life of the product (as determined from the date of manufacture), the product will conform to the specifications provided in this technical bulletin. **POLYGEM MAKES NO OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Neither any performance or other conduct, or any oral or written representation, statement or advice provided by Polygem or any of Polygem's distributors, agents, or employees will create a warranty, or in any way increase the scope or duration of this limited warranty. Polygem will have no warranty obligation if the product becomes defective, in whole or in part, as a result of: (i) the transportation of the product; (ii) any alteration or modification to the product by third parties; or (iii) improper handling or storage of the product (including improper handling or storage by third-party carriers or distributors).

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