

# POLYBAC #580 FS-WB

## FAST-SET TILE ADHESIVE EPOXY PASTE

Data Sheet M-022

### 1. PRODUCT NAME

POLYBAC #580FS

### 2. MANUFACTURER

Polygem, Inc.  
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### 3. PRODUCT DESCRIPTION

POLYBAC #580FS is a specially formulated epoxy paste formulated to provide a fast-setting patching compound for immediate protection of surfaces subjected to wear and abrasion. POLYBAC #580FS is an easy to mix 1 to 1 by volume ratio and will cure in as little as 15 minutes. POLYBAC #580FS is ideal for emergency repairs and will minimize down-time of critical equipment and process lines. POLYBAC #580FS is waterproof and resistant to most chemicals and solvents. POLYBAC #580FS is a thick non-sag paste compound that will allow for vertical and overhead patching.

#### Advantages

- Fast-setting in as little as 15 minutes.
- No VOC's or Solvents
- Low Odor Formula
- Bonds to most dry surfaces

#### Uses

For the patching and repair of worn metal or concrete surfaces that are exposed to abrasive environments. POLYBAC #580FS is ideal for use on:

- Setting Ceramic Tiles
- Vibrating Screens & Beams
- Cyclones
- Hopper and Chutes
- Pump Casings
- Wear Plates
- Brick Corners and Transitions Areas
- Dust Collection Systems
- Chipper and Grain Bins
- Pneumatic Conveyors
- Heat Exchangers and Tube Sheets
- Augers, Fan and Impeller Blades

### 4. APPLICATION INSTRUCTIONS

- 1) Clean surface by sandblasting or grinding to provide rough white-metal profile.

- 2) Thoroughly mix equal amounts by volume of Part A Resin with Part B Hardener until streak free. Mix only enough that can be applied in 5 minutes.
- 3) Spread mixed epoxy with trowel or putty knife and worked well into the surface.
- 4) Epoxy may be smoothed with a trowel dipped in a solvent.

Consult Polygem for additional technical instructions for crack repair specifications.

#### Packaging

POLYBAC #580FS is available in 2 kit sizes: 7 lb. - 2 Quart Kits and 30 lb. - 2 Gallon Kits.

#### Shelf Life

Factory sealed containers of this product are guaranteed to be of first quality for min. 12 months.

#### Limitations

- Do not apply over 5/8" 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 45°F (7°C) or above 90°F (32°C).
- During cool conditions epoxy will cure slower, protect finished work from wear and abrasion 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 protective requirements.
- POLYBAC #580FS may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

### 5. TECHNICAL DATA

Performance Properties  
Test/Test Method Results

Pot Life @ 77°F (100 gms)	6 mins.
Tack-Free Time @ 77°F	10 Minutes
Compressive ASTM D-695	10,600 psi
Compressive Modulus	318,000 psi
Tensile Strength ASTM D-638	2,800 psi
Elongation ASTM D-638	10.8% min.
Mix ratio by volume	A/B 1:1
Mixed Viscosity	Heavy Paste
Color Mixed	Gray

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