



1183-WB | CERAMIC BEADED WEARING COMPOUND

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

POLYGEM
polygem.com

PRODUCT DESCRIPTION

1183-WB is a specially formulated epoxy paste blended with abrasion resistant small black ceramic beads to provide a durable barrier to protect surfaces subjected to wear and abrasion.

1183-WB is an easy to mix 1A : 1B by volume ratio which is waterproof and resistant to most chemicals and solvents. 1183-WB is a thick non-sag paste compound that will allow for vertical and overhead patching.

ADVANTAGES

- **Extremely durable ceramic matrix**
- **Chemical Resistant**
- **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.

1183-WB is Ideal For Use On:

- Pipe Elbows
- 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

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 35 minutes.
3. Spread mixed epoxy with trowel or putty knife and work it well into the surface.
4. Epoxy may be smoothed with a trowel dipped in a solvent.

PACKAGING

1183-WB is available in a- **2 Gallon Kit.**

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 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 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 of protective requirements.
- **1183-WB** may irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin.
- For professional use only.
- Keep out of reach of children.

TECHNICAL DATA

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

TYPICAL PROPERTIES

Pot Life: @ 77 °F (25 °C) @100 gms mass	35 mins.
Compressive:	10,600 psi
<small>ASTM D-695</small>	
Compressive Modulus:	308,000 psi
Tensile Strength:	8,300 psi
<small>ASTM D-638</small>	
Elongation:	3% min.
<small>ASTM D-638</small>	
Bond Strength:	2,000 psi
<small>ASTM C-882</small>	
Shore D Hardness:	85-80
Cure Time @75 °F (25°C):	16-24 hours
Mix Ratio by Volume:	1A:1B
Mixed Viscosity:	Heavy Paste
Color Mixed:	Gray

TB - TECHNICAL BULLETIN