



# 1183WB™ Wearing Compound | EXTREMELY DURABLE CERAMIC BEAD MATRIX

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

**POLYGEM**  
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## PRODUCT DESCRIPTION

**1183WB™ Wearing Compound** 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.

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

## ADVANTAGES

- Extremely Durable Ceramic Matrix
- Chemical Resistant
- No VOCs 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.

### 1183WB 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

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

## STORAGE

For best results, purchase quantities suited to your project and use material soon after receipt. Store in temperatures between 60-80°F (16-27°C). 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 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.

**1183WB Wearing compound** 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

<b>Pot Life:</b> (77 °F (25 °C) 100 gms)	.....35 mins.
<b>Compressive Strength:</b>	.....10,600 psi
<b>ASTM D-695</b>	
<b>Compressive Modulus:</b>	.....308,000 psi
<b>ASTM D-695</b>	
<b>Tensile Strength:</b>	.....8,300 psi
<b>ASTM D-638</b>	
<b>Elongation:</b>	.....3% min.
<b>ASTM D-638</b>	
<b>Bond Strength:</b>	.....2,000 psi
<b>ASTM C-882</b>	
<b>Taber Wear Index:</b> (ASTM D-4060   MIL-8625)	.....37.01
<b>Shore D Hardness:</b>	.....85-80
<b>Cure Time:</b> (75 °F (25°C))	.....16-24 hours
<b>Mix Ratio by Volume:</b>	.....1A:1B
<b>Mixed Viscosity:</b>	.....Heavy Paste
<b>Color Mixed:</b>	.....Gray

## 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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