



CeramaBead 10

Trowel Grade Ceramic Reinforced Wear Resistant Coating

DESCRIPTION

CeramaBead 10 with fiber is a high performance trowel grade polymer coating. The two-part coating incorporates a high loading of fine spherical alumina within the resin and hardener system that when reacted cures to provide a surface with outstanding wear protection. CeramaBead 10 can be troweled to a smooth finish and is used in fine particulate wear applications where the repair compound is applied less than 1/4" (6.3 mm). CeramaBead 10 is suitable for use on both new and worn equipment components and may be top coated with CeramaClad coatings to provide contrasting colors for visual wear indication.

SUGGESTED USES :

Induction fan	Chutes	Scrubbers	Screw conveyor
Pump casing	Pipe lining	Pump impellers	Dust collector lining

PERFORMANCE PROPERTIES

Performance Property	Test Method	Result
Hardness	ASTM D 2240	Greater than 80 Shore D
X-cut Adhesion	ASTM D 6677	Rating 10
Pull off Adhesion	ASTM D 4541	Greater than 3,500 psi
Abrasion	ASTM D 4060	Less than 20 mg loss
Compressive Strength	ASTM D 695	10,000 psi
Flexural Strength	ASTM D 790	13,500 psi
Chemical Resistance	ASTM D 543	Excellent
Temperature Resistance	Bake cycle	Up to 195 °F (will darken)
Solids Content	ASTM D 1259	100%
Volatile Organic Compounds	ASTM D 2369	0 grams/liter

PHYSICAL PROPERTIES

Color	Gray (will darken with temperature)
Pot life (75 °F)	30 minutes (volume dependent)
Mix ratio (Resin:Hardener)	2:1 by volume
Mix ratio (Resin:Hardener)	1.37:1 by weight
Dry to Touch at 75 °F	4 hours
Cure to service at 75 °F	24 hours
Theoretical coverage	1604 sqft/gallon/mil
Low temperature application	Minimum 50 °F
Minimum recoat time at 75 °F	4 hours
Maximum recoat time at 75 °F	16 hours
Sag resistance (single pass)	125 mils (3.2 mm)

1-905-676-1969

Page 1 of 3

www.fmpcoatings.com

MIXING INSTRUCTIONS

Pre mix Resin Part A and Hardener Part B individually, be sure that any settled material at the bottom of the can is dispersed. Mix for 2 to 3 minutes until a uniform color and consistency is achieved.

MIX AND APPLY (trowel)

This is a two-component system. COMPLETE UNIT MUST BE MIXED AND APPLIED AT ONE TIME. DO NOT MIX PARTIAL QUANTITIES FROM CONTAINERS OR PROPER RATIOS MAY NOT BE OBTAINED. No reducing or thinning of the material is permitted. Pour premixed Part B Hardener into premixed Part A Resin. Mix for 2 to 3 minutes using a Jiffy mixer head and a mechanical drill. To ensure complete mixing, scrape sides and bottom of container and continue mixing for an additional 1 or 2 minutes. DO NOT HAND MIX. Begin application immediately - no induction time. Contents of the container may be portioned off into smaller containers to maintain pot life. Once mixed, the product may be applied by trowel or putty knife. Work the material into the surface profile to completely wet out the substrate surface to ensure proper adhesion. Once the surface is wet out, apply the coating to the desired film thickness.

For bridging gaps or holes impregnate the coating system with fiberglass sheet. Expanded metal and mechanical fasteners may be used where the coating thickness exceeds 1/4".

SURFACE PREPARATION

- 1) Ensure that surface is clean, dry and uncontaminated. Proceed only if the substrate temperature is more than 5°F above the dew point temperature and relative humidity is below 85% during surface preparation and coating application. All surface must be cleaned with FMP RapidPrep Cleaner.
- 2) Abrasive blast clean with garnet or aluminum oxide (G40 or coarser). DO NOT USE steel shot or non-angular media.
For steel surfaces, blast to a White Metal Blast (SSPC-SP5; NACE 1; SA 3):
- minimum 3.0 mil profile for immersion and elevated temperature service.
- 3) In areas where abrasive blasting cannot be performed, it is recommended that the surface be prepared by bristle blasting or grinding with a coarse abrasive disc such as 25 grit. With either power tool method the surface must be a clean with no visible rust or surface contamination.

CHLORIDE AND SULFATE CONTAMINATED SUBSTRATES

Where the risk of chloride or sulfate contamination is high, the substrate surfaces shall be inspected for soluble salt contamination prior to applying the coating system.

Levels of contamination shall be below 2 µg/cm². Neutralization of the surface shall be performed with commercially available solutions such as Chlorid™ and high pressure water jetting.

It is highly recommended that where the substrate has been exposed to salt water immersion that the surface is abrasive blasted, allowed to sit for 24 hours, followed by high pressure water jetting with a neutralization solution before reblasting for the application of the coating.

INSPECTION

Immediately following the application of the coating visually inspect the coating for pinholes and areas of missed coating. These areas can be repaired immediately if the coating is tacky to touch.

Further inspection is to be performed once the coating has cured. Visually inspect the coating for discoloration, pinholes, uncured coating, blisters, and other visual defects. Mechanical removal and reapplication may be required depending on the defect type.

Where the coating is to be used for immersion service or service where corrosion protection is required, discontinuity testing in accordance with relevant ASTM standards shall be performed. The minimum recommended voltage is 3,500 volts or 120 volts/mil based on the average coating thickness.

PACKAGING AND COVERAGE

Kit Size	Theoretical Coverage Rate / Kit	Nominal Thickness
3.3 lb (1.5 Kg)	2.2 square feet (0.2 square meter)	125 mils (3.2 mm)
7.5 lb (12.5 Kg)	18.8 square feet (1.74 square meter)	125 mils (3.2 mm)

NOTE: Waste factor is not included in the theoretical coverage rate. Actual field coverage rates will be dependent on the surface roughness, over spray, applicator experience, drum heel waste and overbuild beyond the nominal thickness.

CLEAN-UP AND STORAGE

- 1) Use commercial solvents (Xylene, Methyl Ethyl Ketone) to clean tools immediately after use.
- 2) Once the coating is dry, the material must be abraded off.
- 3) Keep containers tightly sealed and store upside down. For cleanup, M.E.K. or a 50:50 blend of M.E.K. and Xylol.
- 4) Store between 10°C(50°F) and 27°C(80°F). DO NOT FREEZE. Use product within 36 months of receiving.

SAFETY

FOR INDUSTRIAL USE ONLY. Before using any products, please refer to the Material Safety Data Sheet (MSDS). Follow standard confined space entry and work procedures, if appropriate. Wear eye safety protection, chemical resistant gloves. Use NIOSH approved respirator where mist occurs.

TECHNICAL SUPPORT

For technical support, please call 905-676-1969 or email tech@fmpcoatings.com

The information contained in this document may change at any time. Please contact us for the most up to date version. Technical data results reflects laboratory tests and is intended to indicate general characteristics only. Furnace Mineral Products Inc., disclaims all warranties expressed, or implied, including warranties of merchantability and fitness for a particular purposes or use. Liability, if any, is limited to product replacement only.

REVISION 01/16

1-905-676-1969

Page 3 of 3

www.fmpcoatings.com