

# MetalTec™

Composite High Performance Coatings

## Product Data Sheet

### MetalTec Cerbide Super Wearing Abrasion Resistance Compound

**Description:**

A unique composite formulation of various sized ceramic fibers and carbide chips resulting in a tightly packed super abrasion resistant coating. For equipment that handles materials 1/16" (1.6mm) or larger.

**MetalTec Cerbide** may be used in any position. It does not slump or sag and may be applied up to 1"(25mm) thick vertically and 1/2"(12mm) thick overhead without the use of expanded metal reinforcement. Due to its handling characteristics, **MetalTec Cerbide** generally cannot be applied in thickness less than 3/16"(5.0mm).

Deposits cannot be machined.

USDA accepted for incidental food contact.

**Specifications:**

Compressive Strength (ASTM D695) ..... 16,500 psi  
Adhesive Strength (ASTM D1002)..... 3,000 psi  
Shore D Hardness..... 98  
Temperature Resistance..... Dry - 350°F (177°C)  
..... Wet - 225°F (107°C)  
Dielectric Strength (ASTM D149)..... 500 volts/1 mil thickness (25 microns)  
Mix Ratio - By Volume..... 2 parts B to 1 part A  
By Weight..... 2 parts B to 1 part A  
Working Time @ 70°F(21°C) ..... 30 minutes  
Cure Time @ 70°F(21°C) ..... Usable in 3 - 4 hrs.  
Coverage..... 2.2lbs covers 1.102ft.(.10m2) @ 3/16"(5.0mm) thick

**Suggested Applications:**

Feed chutes and liners, pipe elbows, conveyor screws, cyclones, centrifuge screws, mixing equipment, paddles and blades. **MetalTec Cerbide** will not slump or sag and is ideal for vertical and overhead applications.

**Packaging:**

2.2 lbs(1 kg)  
11 lbs(5 kg)  
33 lbs(15 kg)

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## PROTECTIVE COATINGS

### INSTRUCTIONS FOR APPLYING METALTEC REPAIR COMPOUNDS

#### **PREPARATION**

For maximum adhesion, the surface to which MetalTec is to be applied must be thoroughly dry and free from any surface contamination. A residue free solvent should be used to remove all oil and grease. The surface should be roughened or abraded by threading, grit blasting or disc grinding. Abrasive preparation should be followed by a second degreasing to remove all traces of oil, grease, dust and other foreign substances.

#### **MIXING - Refer to Product Specifications for Mixing Ratios**

Blend the A & B components until one color is achieved without streaks, then mix for an additional 30 seconds. If using one of the trowelable MetalTec grades, it is best to blend the A & B components on a flat surface. If using one of the brushable grades, it is best to pour the A part into the B component and mix in the container (be sure to scrape the sides and bottom to insure complete mixing).

#### **WORKING TIME - Refer to the Specification Chart for correct working life.**

The working life will be shorter if the temperature is warmer than 70°F (21°C) and longer if the temperature is cooler.

#### **APPLICATION**

Spread the MetalTec compound over the prepared surface. Be sure to fill in all cracks and air pockets. Large cracks or holes should be covered with the MetalTec reinforcing mesh, then overcoated.

#### **CURE TIME**

Cure time will be longer if the temperature is below 70°F(21°C) and shorter if above. Cure time will also be longer if applied in thin layers or if applied to aluminum or copper.

#### **ADDING MORE LAYERS**

For thicker build-ups, two or more layers may be applied. A second may be applied as soon as the first one is firm but still tacky. If a layer of MetalTec is allowed to become hard and dry to touch, the surface will have to be roughened in order to provide optimum inter coat adhesion.

#### **CLEAN UP**

All mixing and application tools should be cleaned immediately after use with a degreaser or other type of solvent.

#### **IMPORTANT**

MetalTec believes the information contained here to be true and accurate. Information contained here is for evaluation only. MetalTec makes no warranty, expressed or implied, based on this literature. We also reserve the right to modify and change products or literature at any time.

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