

MetalTec 9000

Complete Resurfacing System for Resurfacing and Restoring Broken Deteriorating or Spalled Concrete

MetalTec 9000 has been designed as a complete polymeric repair system for restoring damaged sections of concrete to "better than new" condition. A single unit contains all the necessary tools and polymeric compound to complete a permanent repair. It offers outstanding compressive and tensile strengths and is up to four times stronger than regular concrete. Once applied, it forms a chemically tight bond that **can be ready for use in about 10 hours**.

When all the components are mixed, **MetalTec 9000** has the consistency of a thick mortar. Deposits are **non-shrinking** and can be applied in various thicknesses from a feathered edge up to 4.5 inches thick. The special polymer chemistry, together with the triple washed silica quartz filler, provides an extremely hard abrasion resistant surface that is also highly resistant to acids, alkalis, detergents, gasoline, motor oils, de-icing chemicals and solvents.

USDA accepted for incidental food contact.

Specifications:

Compressive Strength (ASTM D-695) 15,000 psi
Maximum Service Temperature.....350°F(177°C)
Pot Life @ 70°F(20°C)..... 75 minutes
Cure Time to Foot traffic 4 - 5 hours
Vehicular Traffic 8-10 hrs.
Coverage..... One 55 lb unit will cover 16 ft2 @ 1/4"(6.0mm) thick

Suggested Applications:

Loading docks, forklift aisleways, high traffic and heavy equipment areas.

Work areas exposed to chemical spills such as storage tank areas, pickling room floors, pump pads.

Patching or repairing broken and deteriorated sections of concrete.

Anchoring or reinforcing heavy machinery.

PACKAGING:

22 lb unit (10 kgs)
55 lb unit (25 kgs)

MetalTec™

PROTECTIVE COATINGS

METALTEC 9000 APPLICATION INSTRUCTIONS

A. Surface Preparation - All loose, broken and weak concrete must be removed. A mechanical chipping hammer is highly recommended. Detergent clean to remove grease and oil. Trisodium Phosphate is ideal for this purpose. This should be followed by acid etching with a solution of 10% muriatic acid in water. Using a stiff bristled brush, scrub into the surface. Allow acid to react for about 15 minutes. Flush concrete with 2 cups of ammonia in 5 gallons of water. Rinse again with clear water and allow the floor to dry thoroughly.

B. Mixing the A and B Component - Remove all contents from the plastic shipping container. Open the container labeled B-Component (base) and stir the contents thoroughly until a uniform color is achieved. Empty the B-Component into the plastic shipping container. Open the container labeled A-Component (activator) and add it to the B-Component. Mix thoroughly.

Mixing Ratio: By Volume - 2 parts B / 1 part A
By Weight - 9.5 lbs part B / 4 lbs part A

C. Priming the area to be Coated - At this point the area to be repaired must be primed. Lightly brush a thin coating of the mixture over the repair area. Use only enough of the mixture to cover the area that each kit covers.

D. Mixing the Quartz Filler - Following the priming step, gradually mix in the quartz filler. As supplied, the mix ratio is 28 lbs. quartz to 1/2 gallon of mixed resin. This ratio will produce a very dry stiff mortar. A slow speed mechanical mixer must be used, The sides and bottom should be continually scraped. If a more pourable, flowable consistency is desired, use a mix ration of 20-23 lbs of quartz to 1/2 gallon of mixed resin.

E. Working Time - The pot life of **Metaltec 9000** at average room temperatures is about 75 minutes. The working life will be shorter if the temperature is warmer than 70oF (21oC) and longer if the temperature is cooler. Also a large mass of material will generate more heat, shortening the pot life.

F. Application of MetalTec 9000 - **MetalTec 9000** is now ready for use. When applying on a horizontal or vertical surface, best results are obtained with a flat masonry trowel. For tuck pointing, a pointed tuck trowel is preferred. In order to avoid a slick, slippery finish, do not overwork the compound, as this compacts the quartz filler and "pools" the resin. Periodically wipe the face of the trowel with water or an solvent, such as MetalTec 602 solvent, to minimize sticking to the trowel face.

G. Cure Time - At average room temperatures **MetalTec 9000** will be cured to foot traffic in approximately 4 hours and vehicular traffic in about 10 hours. Cure time will be longer if the temperature is below 70°F(21°C) and shorter if above.

H. Adding More Material - 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.

I. 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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