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# Titanium 5<sup>®</sup> Epoxy

## Technical Data Sheet

Rev 07/07

**PRODUCT DESCRIPTION:** Fast setting titanium-filled epoxy that bonds like and unlike metals with superior strength that will not shrink. Fills cracks, voids and gaps in all metals. Can be drilled, tapped, machined and sanded after cure.

**WORKS BEST ON:** Metal, titanium, copper, steel, aluminum, stainless steel, brass, iron and pewter. DO NOT USE ON AREAS THAT WILL COME IN CONTACT WITH FOOD RELATED ITEMS.

### PRODUCT FEATURES:

Tensile Strength: 2,500 psi

Color: Dark Grey

Waterproof

Working Time: 4-5 minutes

Set Time: 8-10 minutes

Can be Handled In: 1 hour

Full Bond: 4-8 hours

Temperature Range: -60°F - +200°F

Chemical Solvent Resistance: water and solvent resistant.

**Epoxies are generally not recommended for long term exposure to chemicals and solvents.**

Storage: Store in a cool, dry environment.

**SURFACE PREPARATION:** Protect work area from accidental spills. Remove all dirt, oil, grease, etc. Gently roughen, alcohol wipe, and dry.

**REMOVAL METHODS:** (test inconspicuous area of product to be sure chemicals do not harm surface) Before the epoxy is allowed to dry, remove excess epoxy immediately with a damp cloth. Isopropyl alcohol or mineral spirits can be use.

#### After cure:

Metal/Ceramic/Glass: heat in excess of 200°F, this will weaken the epoxy. Sand, file or chip where possible. Solvents that can be used: isopropyl alcohol, acetone, methylene chloride or other solvent.

Fabric: Before cure, immediately flush with warm water. Once cured it is impossible to remove from fabric.

Wood: Sand cured epoxy from wood.

**HELPFUL HINTS:** Heat is generated while the epoxy mixture cures. The more hardener and resin that is mixed together, the more heat that is generated causing the epoxy mixture to cure faster. Only mix the amount of hardener and resin together that can be used within the working time.

Equal portions of the hardener and resin must be thoroughly mixed together in order for this product to cure properly. The most common problem with a two-part epoxy product is not mixing it thoroughly; it will not cure and will remain tacky. It is recommended that these epoxies be mixed on a clean surface (such as a paper cup, in the inside of the blister it is packaged on or etc.); do not mix it directly on the surface to be repaired. Once the product is thoroughly mixed, it can be applied to the repair area(s). *Please note, during the mixing process, be sure to scrape the sides and bottom into the mixture so that you are mixing all of the epoxy resin and hardener together.*

Removable tape is good for putting on an area that you don't want any epoxy to get on. Before the epoxy cures, remove the tape.

When cured, Titanium 5 can be sanded and painted.

**See MSDS for more complete information, safe handling instructions and first aid.**

Non-Regulated

Part Numbers: 47909, 60020



The technical data contained herein are intended as a reference only