



TECHNICAL DATA SHEET

TITANBOND- TITANIUM PUTTY

PRODUCT: H-900 1 lbs. (454grams) Repair Kit Stock Number 00900

DESCRIPTION: A two component, room temperature curing high performance epoxy formulation with special metallic particles, proprietary additives and modified curing agents. Provides outstanding strength, durability, high temperature and chemical resistance. Cures at temperatures as low as 5°C (40°F)

APPLICATIONS: TITANBOND is especially formulated for rebuilding worn shafts, keyways, hydraulic rams, and other metal surfaces. Very high compressive strength makes it excellent for bedding and leveling machinery. Can also be used for general repairs of pipes, tanks, valves, etc.

| PHYSICAL PROPERTIES: | |
|--------------------------------------|--------------------------------------|
| Color | Metallic Grey |
| Pot Life 1 lb. @ 24°C (75°F) | 25 minutes |
| Viscosity | Non-sagging Paste |
| Coverage | ¼" Thickness- 47 sq. inches per lbs. |
| Temperature Resistance | 350°F (177°C) |
| Hardness (Shore, ASTM D 1706) | Shore D 90 |
| Density | 11.9 cu. in. per lb. |
| Flexural Strength | 7,900 psi |
| Compression Strength (ASTM D695-80) | 18,400 psi |
| Tensile Shear Strength (ASTM D 638) | 2,400 psi |
| Adhesive Tensile Shear (ASTM D 1002) | 2,158 psi |

| CHEMICAL RESISTANCE: | |
|------------------------------|-----------|
| Hydrochloric Acid 10% | Excellent |
| Hydrochloric Acid 50% | Good |
| Sulfuric Acid 10% | Excellent |
| Sulfuric Acid 50% | Good |
| Water | Excellent |
| Ammonia | Excellent |
| Sodium Hydroxide 10% | Excellent |
| Gasoline, Oil, Kerosene | Excellent |
| Mineral Spirits | Excellent |
| Toluene | Good |
| Methanol | Fair |
| MEK | Fair |
| Propylene Glycol | Excellent |
| Brake Fluid | Excellent |
| Ethanol | Excellent |
| Trisodium Phosphate 5% | Excellent |
| Sodium Hypochlorite (Bleach) | Excellent |



TECHNICAL DATA SHEET

TEMPERATURE RESISTANCE: At 350°F (177°C) there is no breakdown in dry heat, but fro continuous exposure, the strength starts to decrease at 270°F (132°C).

DIRECTIONS: Surface preparation is critical. Surfaces must be clean, dry, and preferably roughened for maximum adhesion.

Add all of the hardener to all of the resin in the resin container. For smaller portions, dole out 2.5 parts resin to 1 part hardener by volume and 5 parts resin to 1 part hardener by weight.

Mix thoroughly for at least 6 minutes, making certain that all of the hardener comes in contact with all of the resin. While mixing be sure to scrape the sides and bottom of the container.

Apply the mixed compound with putty knife, spatula, or similar tool. The tool may be moistened with water to provide a smooth finish to the TITANBOND.

COVERAGE: 1lb.(454g) kit covers approximately 47 square inches (303.23 square centimeters) at ¼” (6.35mm) thickness.

WORKING LIFE AND CURING TIMES: At 75°F (24°C) a ½” (12.5mm) layer of HY-POXY TITANBOND putty will be useable in approximately 2 hours. FULL cure times are as follows:

(POT LIFE)

TEMPERATURE WORKING TIME USEABLE CURE FULL CURE TIME

| | | | |
|-------------|------------|---------|----------|
| 40°F (5°C) | 50 MINUTES | 8 HOURS | 32 HOURS |
| 60°F (16°C) | 35 MINUTES | 3 HOURS | 12 HOURS |
| 75°F (24°C) | 25 MINUTES | 2 HOURS | 8 HOURS |
| 85°F (30°C) | 18 MINUTES | 1 HOUR | 4 HOURS |

HY-POXY TITANBOND will not cure properly below 40°F (4°C).

NON-WARRANTY: We can accept no responsibility or liability for lack of results because the storage, handling, and application of the compound is beyond our control.



TECHNICAL DATA SHEET