



TECHNICAL DATA SHEET

TITANBOND- TITANIUM PUTTY

PRODUCT: H-900 TITANBOND Titanium Filled Epoxy Repair Kit 1LB (454G)
H-903 TITANBOND Titanium Filled Epoxy Repair Kit 3LB (1.36KG)

DESCRIPTION: A two component, room temperature curing high-performance epoxy formula highly concentrated with special metallic particles, proprietary additives and modified curing agents. TITANBOND provides outstanding strength, durability, high temperature and chemical resistance, and it cures at temperatures as low as 5°C (40°F)

APPLICATIONS: TITANBOND is specially formulated for rebuilding worn shafts, keyways, hydraulic rams, and other metal surfaces. A very high compressive strength makes it excellent for bedding and leveling machinery. It also works great for the general repair 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

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 from 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. Please be sure to scrape the sides and bottom of the container while mixing.

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 cannot accept any responsibility or liability for lack of results because the storage, handling, and application of the compound are beyond our control.

H-900, H-903 TITANBOND