



HYPOXY TITANBOND

TITANIUM FILLED EPOXY REPAIR COMPOUND

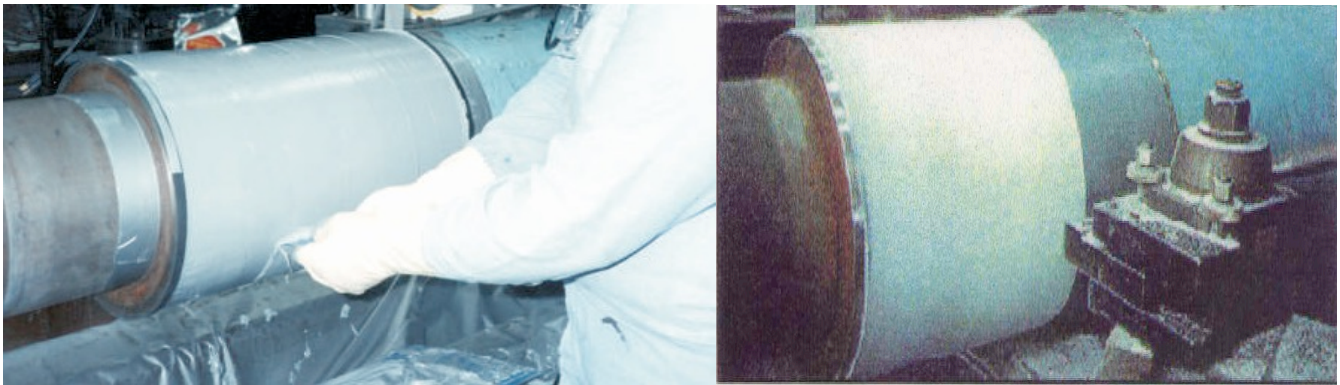
PRODUCT: H-900 1Lb (454 gms) Pack.

DESCRIPTION: A two-component epoxy formulation highly filled with carefully selected Special Metallic Fillers, Proprietary additives & modified curing agents to provide maximum strength, durability, high Temperature & chemical resistance and ease of application.

Cures at temperatures as low as 5°C (40°F) Will adhere to vertical surfaces and is easily machinable with standard metal working tool.

HYPOXY TITANBOND is a trowel applied, machinable grade composite repair compound, formulated with Titanium fillers for maximum durability and performance.

Produces exceptional physical properties – compressive, tensile and adhesive strength – and is excellent for making permanent metal repairs or bonding metals to non-metals, such as concrete to steel. Protects surfaces exposed to temperature up to 177°C. As a corrosion resistant coating **HYPOXY TITANBOND** offers excellent protection against a wide variety of chemicals – organic and inorganic acids, caustics, oils, solvents, and detergents. Although proper surface preparation is very important.



SUGGESTED APPLICATIONS

Worn Bearing Housings, Over size bearing & bush housing

Damaged Keyways

Stripped Threads

Scored Hydraulic Rams

Worn Shafts Valve and Pump Components

Repairing Cracks in Engine Blocks

Scored Machine Beds

Distorted or steam cut flange faces

Fractured Castings

Ideal for Chocking and Leveling Machinery

Sealing Leaks in Storage Tanks, Pipes, Radiators,

Condensers, Heat Exchangers and Flange.

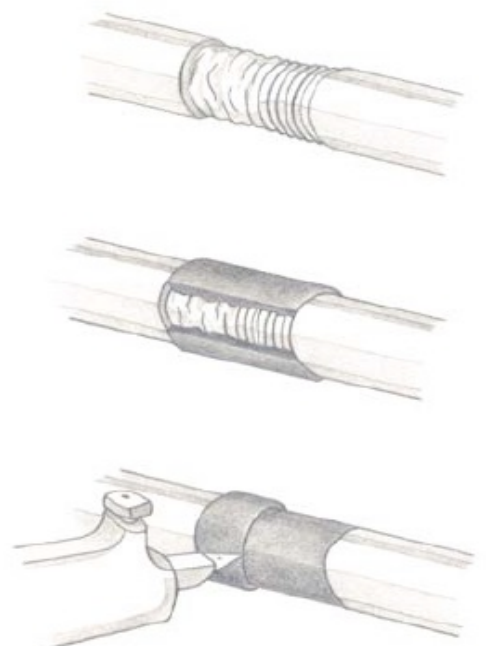
Very high compressive strength makes it excellent for bedding and levelling machinery.

Its high strength makes it ideal choice for use as top coat after

application of HYPOXY STEELFAST in Insitu Transformer oil

Leakage arresting.

HYPOXY STEELFAST cured deposit can be machined, sanded, drilled and tapped which makes it a popular choice for fast & effective repair by maintenance personnel.



**PHYSICAL PROPERTIES:**

Color -:	Metalic 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) -:	90D
Cured Density -:	11.9 cu. In. per lb.
Flexural Strength -:	7900 psi
Compression Strength (ASTM D 695 – 80)	18,400 psi
Tensile Strength (ASTM D 638)	2,400 psi
Adhesive Tensile Shear (ASTM D 1002) -:	2,158 psi

CHEMICAL RESISTANCE:

Hydrochloric Acid 10% -:	Very Good
Hydrochloric Acid 50% -:	Good
Sulfuric Acid 10% -:	Very Good
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
Trisodium Phosphate 5% -:	Excellent
Brake Fluid -:	Excellent
Ethaol -:	Excellent
Sodium Hypochlorite (Bleach) -:	Excellent

SURFACE PREPRATION :

Surfaces must be clean, dry, and preferably roughened for maximum adhesion. Proper surface preparation is critical to the long term performance of this product. The exact requirements for surface preparation vary with the severity of the application, expected service life, and the initial substrate condition.

Optimum preparation will provide a surface thoroughly cleaned of all contaminants and roughened to an angular profile between 75-125 microns (3 to 5 mils). This is normally achieved by initial cleaning, followed by abrasive blasting to a cleanliness of white metal (SA3 /SSPC-SP5) or Near White Metal (SA 2 ½ SSPC SP 10) followed by rinsing with an organic solvent which evaporates leaving no film residue.

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).

MIXING : 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.

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:

TEMPERATURE	WORKING TIME (POT LIFE)	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

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.

PL CALL IN YOUR LOCAL AUTHORISED DEALER TO GET FULL ADVANTAGE OF PRODUCT TRAINING AND KNOW HOW TO MAKE BEST USE OF HYPOXY PRODUCTS.

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