

HYPOXY STEELBOND STEEL REPAIR PUTTY

PRODUCT: H-100 1Lb (454 gms) Pack.

DESCRIPTION: A two-component epoxy formulation highly filled with carefully selected pure steel Fillers, modified curing agents, and special high quality additives to provide maximum strength, durability, and ease of application. Will adhere to vertical surfaces and is easily machineable with standard metalworking tools and equipment.

APPLICATIONS:

HYPOXY STEELBOND hardens to a gray metallic mass and adheres soundly to almost every material except for polyethylene.

A permanent, non-shrinking metallic filler for blow holes in castings. Ideal for building up metal surfaces. Widely used for fast, inexpensive, but accurate drill jigs and placement fixtures.

HYPOXY STEELBOND is especially formulated for repairing valves, pumps, castings, water jackets, radiators, Pipe, Tanks, Engine Blocks etc.

HYPOXY STEELBOND® is unaffected by water, oil and gasoline and widely used by professional tradesman worldwide.

HYPOXY STEELBOND® cured deposit can be machined, sanded, drilled and tapped which makes it a popular choice for automotive, plumbing and HVAC repairs. It is also commonly used as a reinforcement coat over HYPOXY STEELFAST after attending the emergency oil / water / gas leakages





PHYSICAL PROPERTIES:

Color -: Dark Grey Pot Life 1 lb. @ 24°C (75°F) -: 45 minutes

Viscosity -: Non-sagging Paste
Mixed Viscosity -: 350,000 cps
Cure Shrinkage -: 0.0005 in/in
Temperature Resistance -: 250°F (121°C)

Hardness (Shore, ASTM D 1706) -: 85D

Cured Density -: 11.9 cu. in. per lb. Coefficient of Thermal Expansion -: 65 X 10- 6 cm/cm/°C

Compression Strength

(ASTM D 695) -: 8,100 psi (56 M Pa)

Tensile Strength

(ASTM D 638) -: 4,100 psi (28 M Pa)

Flexual Strength

(ASTM D 790) -: 6300 psi (43 M Pa)

Dielectric Strength -: 30 Volts / mil

CHEMICAL RESISTANCE:

Hydrochloric Acid 10% -: Very Good Hydrochloric Acid 50% -: Good Sulfuric Acid 10% -: Very Good Sulfuric Acid 50% -: Good Water -: Very Good Ammonia -: Very Good Sodium Hydroxide 10%-: Very Good Gasoline, Oil, Kerosene -: Very Good Mineral Spirits -: Very Good Good Toluene -: Methanol -: Fair MEK -: Fair Propylene Glycol -: Very Good



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. Grinding or machining to a rough surface profile followed by rinsing with solvent is acceptable although a subsequent lowering in adhesion may result.

MIXING:

Add all of the hardener to all of the resin in the resin container. For smaller portions, dole out 1 part hardener to 3 parts resin by volume (1 to 9 parts by weight).

Mix thoroughly, 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 HY-POXY®. Since HY-POXY® will not adhere to polyethylene, a piece of that plastic can be placed on the uncured HY-POXY® and removed after the material cures to leave a very smooth finish.

COVERAGE:

1lb. (454g) STEELBOND® kit covers approximately 47sq. inches (303sq.centimeters) at 1/2" (6.35mm) thickness.

CURING TIME:

At 75°F (24°C) a ½" (12.5mm) layer of HY-POXY® STEELBOND® putty will be hard in approximately 4 hours. FULL cure times are as follows:

TEMPERATURE	WORKING TIME	FULL CURE TIME
60°F (16°C)	90 Minutes	32 Hours
75°F (24°C)	45 Minutes	16 Hours
90°F (32°C)	25 Minutes	8 Hours.

SAFETY:

Before using any product, review the appropriate Material Safety Data Sheet (MSDS). Follow standard confined space entry and work procedures, if appropriate.

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 MORE USE OF HY POXY PRODUCTS



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