

HYPOXY ALUM BOND® **ALUMINUM FILLED POLYMER COMPOUND**

PRODUCT: H-45 2 Oz/56.8 gms Pack. & H-450 6.5 Oz/184 gms Pack

DESCRIPTION: A two-component polymer formulation highly filled with carefully selected pure Aluminium 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 machinable with standard metalworking tools and equipment.

APPLICATIONS:

HYPOXY ALUM BOND hardens to a low viscosity (semi fluid) gray metallic mass which can penetrate in smallest holes / cavities which make it suitable for use on all grades of Aluminum casting repair.

A permanent, non-shrinking Aluminium metallic filler for blow holes repair in castings. Ideal for building up metal surfaces.

HYPOXY ALUM BOND is especially formulated for repairing valves, pumps, castings, water jackets, radiators, Pipe, Tanks, Engine Blocks

HYPOXY ALUM BOND is most suitable fillers for Repair of Pin holes, Blow holes, Surface irregularities in Aluminum Castings.

Fill up porosity in cast components.

Repair of damaged threads in cast components.

Repair of surface & subsurface cracks in Aluminum & Steel castings.

ALUM BOND cured deposit can be machined, sanded, drilled and tapped which makes it a popular choice for automotive, plumbing and HVAC repairs.

Ideal For Repairing Aluminum Casting, Aluminum Heads, Hvac Pipes, Radiators, Tanks, Valves, Pitted Aluminum Wheels & other Aluminum Parts & Dies.





PHYSICAL PROPERTIES:

Tensile Strength

(ASTM D 638) -:

Color -: Grey Pot Life 1 lb. @ 24°C (75°F) -: 45 minutes Viscosity -: Non-sagging Paste Mixed Viscosity -: 330,000 cps Cure Shrinkage -: 0.0005 in/in Temperature Resistance -: 250°F(121°C) Hardness (Shore, ASTM D 1706) -: 83D Cured Density -: 17.5 cu. In. per lb. Coefficient of Thermal Expansion -: Compression Strength (ASTM D 695) -: 8,600 psi (59 M Pa)

40 X 10-6 cm/cm/°C

3,500 psi (24 M Pa)

Sulfuric Acid 10% -:

Hydrochloric Acid 10% -:

CHEMICAL RESISTANCE:

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



TYPICAL APPLICATIONS -:













Fill a blow hole in a casting.

- a. Clean and dry the cavity as much as possible.
- b. Thoroughly mix the HY-POXY® ALUM BOND as instructed on the packaging.
- c. Fill the blow hole to slightly above the surface of the hole.
- d. After the putty hardens, it can be filed or machined off flush with the surrounding surface.

DIRECTIONS FOR USE:

- -Surfaces must be clean, dry, and preferably roughened for maximum adhesion if possible with file or sand paper. Do not touch the surface after they have been prepared.
- -Squeeze & take out resin and hardener. By Volume Ratio 1:1. Or By Weight Ratio also 1;1
- -Mix thoroughly for 6 minutes, making certain that all of the hardener comes in contact with all of the resin.
- -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.

CURING TIME: At 75°F (24°C) a ½" (12.5mm) layer of HY-POXY ALUM BOND putty will be hard in approx. 45 Minutes. 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

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 COSMOS AUTHORISED DEALER TO GET FULL ADVANTAGE OF PRODUCT TRAINING AND KNOW HOW TO MAKE MORE USE OF HY POXY PRODUCTS



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