



HYPOXY ALUM FAST®

RAPID CURE ALUMINUM FILLED POLYMER COMPOUND

PRODUCT: H-55 2 Oz/56.8 gms Pack. & H-455 6.5 Oz/ 184 gms Pack

DESCRIPTION: A two-component FAST CURING 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 FAST 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, fast curing Aluminium metallic filler for repair of blow holes in castings. Ideal for building up metal surfaces.

HYPOXY ALUM FAST 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.

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

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

ALUM FAST has infinite uses filling gaps and holes on plumbing, electrical, auto, HVAC and industrial applications where a non-magnetic aluminum finish is desired.

ALUM FAST® is also suitable to used in HVAC applications for the repair of air conditioning system components.



PHYSICAL PROPERTIES:

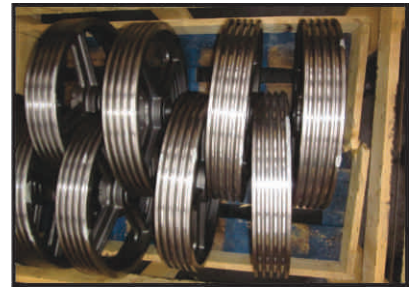
Color -:	Grey
Pot Life 1 lb. @ 24°C (75°F) -:	5 minutes
Viscosity -:	Non-sagging Paste
Mixed Viscosity -:	330,000 cps
Cure Shrinkage -:	0.0005 in/in
Temperature Resistance -:	250°F(121°C)
Hardness (Shore, ASTM D 1706) -:	83D
Cured Density -:	17.5 cu. In. per lb.
Coefficient of Thermal Expansion-:	40 X 10 ⁻⁶ cm/cm/°C
Compression Strength (ASTM D 695) -:	6,600 psi (59 M Pa)
Tensile Strength (ASTM D 638) -:	3,600 psi (24 M Pa)

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
Toluene -:	Good
Methanol -:	Fair
MEK -:	Fair
Propylene Glycol -:	Very Good



TYPICAL APPLICATIONS :-



Casting Repair

- Clean and dry the cavity .Thoroughly mix the HY-POXY® ALUM FAST as instructed on the packaging.
- Fill the blow hole to slightly above the surface of the hole.
- 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 FAST putty will be hard in approx. 45 Minutes. FULL cure times are as follows:

TEMPERATURE

60°F (16°C)

75°F (24°C)

90°F (32°C)

WORKING TIME

6 Minutes

5 Minutes

4 Minutes

FULL CURE TIME

20 Hours

10 Hours

6 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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