



# HYPOXY ALUMINIUM LIQUID

## FLOWABLE EPOXY LIQUID WITH ALUMINIUM FILLERS

**PRODUCT:** H- 411 3Lb ( 1.36 Kg ) Pack.  
H-412 15Lb ( 6.8 Kg ) Pack

**DESCRIPTION:** A two-component epoxy 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 easily pourable to reach intricate parts & difficult to reach and is easily machineable with standard metalworking tools.

**SPECIAL FEATURES :** **Low viscosity, self-leveling liquid**  
**Castable.**  
**Very Low, Negligible shrinkage**  
**Non Corroding & Low Specific Weight.**  
**Machinable to metallic finish**

### APPLICATIONS:

HYPOXY ALUMINIUM LIQUID hardens to a gray metallic mass and adheres soundly to almost every material.

HYPOXY ALUMINIUM LIQUID gives a permanent, non-shrinking Aluminium metallic filler, commonly used for building up metal surfaces, Repair machine bed foundations, Filling and leveling wear plate, machines, engines & heavy equipments, Repairing hard-to-reach areas where a flowable epoxy is needed, Widely used for fast, inexpensive, but accurate drill jigs and placement fixtures.

The low viscosity & Negligible shrinkage after curing makes HYPOXY ALUMINIUM LIQUID as preferred choice for use in making holding devices in heavy industries.

HYPOXY ALUMINIUM LIQUID is unaffected by water, oil and gasoline. ALUMINIUM LIQUID cured deposit can be machined, sanded, drilled and tapped which makes it a popular choice for automotive, plumbing and HVAC repairs.

HYPOXY ALUMINIUM LIQUID has infinite uses like build strong bond agent with various grades of engineering plastics, PP, PE etc, filling gaps and holes in industrial applications where a non-magnetic non Shrinking deposit & finish is desired.



### PHYSICAL PROPERTIES:

Color -:	Grey
Pot Life 1 lb. @ 24°C (75°F) -:	45 minutes
Viscosity -:	Viscous Flowable Liquid.
Mixed Viscosity -:	190,000 cps
Cure Shrinkage % -:	0.002
Temperature Resistance -:	-40°F (-40°C) TO 275°F(134°C)
Hardness (Shore, ASTM D 1706) -:	83D
Cured Density -:	17.5 cu. In. per lb.
Coefficient of Thermal Expansion-:	40 X 10 <sup>-6</sup> cm/cm/°C
Compression Strength (ASTM D 695) -:	8,600 psi (59 M Pa)
Tensile Strength (ASTM D 638) -:	3,500 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
Amine Solutions -:	Good
Gasoline, Oil, Kerosene -:	Very Good
Mineral Spirits -:	Very Good
Toluene -:	Very Good
Methanol -:	Good
MEK -:	Good
Propylene Glycol -:	Very Good



## 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.

Add all of the hardener to all of the resin in the resin jar. For smaller portions, dole out 5 parts resin to 1 part hardener by volume (9 to 1 parts by weight).

Mix thoroughly for 6 minutes, making certain that all of the hardener comes in contact with all of the resin.

Pour & 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.

Pour slowly allowing the material to flow outward. Do not pour back and forth as air entrapment results

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

FULL cure times are as follows:

TEMPERATURE	WORKING TIME	FULL CURE TIME ( Mechanical Loads )	FINAL HARDNESS
60°F (16°C)	90 Minutes	32 Hours	40 Hours
<b>75°F (24°C)</b>	<b>45 Minutes</b>	<b>12 Hours</b>	<b>20 Hours</b>
90°F (32°C)	25 Minutes	8 Hours	16 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 MORE USE OF HY POXY PRODUCTS.**



**HYPOXY SYSTEMS INC.**

**P.O. Box 6988, Hilton Head Island, SC 29938, USA.**

**Tel. 843 363-5681 Fax: 843 363-5682**

**E mail :- [sales@hypoxy.com](mailto:sales@hypoxy.com) Web site :- [www.hypoxy.com](http://www.hypoxy.com)**