



TECHNICAL DATA SHEET

STRONGSTEEL-STEEL REPAIR PUTTY

PRODUCT: H-1 1oz/28.4gr. Repair Kit Stock Number 00001

DESCRIPTION: A two-component epoxy formulation highly filled with carefully selected pure steel particles, modified curing agents, and special high quality additives to provide maximum strength, durability, and ease of application.

APPLICATIONS: STRONGSTEEL is especially formulated for repairing , valves, pumps, castings, water jackets, radiators, etc., where non-rusting, non-magnetic aluminum finish is desired.

PHYSICAL PROPERTIES:	
Color	Dark 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	40×10^{-6} 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
Gasoline, Oil, Kerosene	Very Good
Mineral Spirits	Very Good
Toluene	Good
Methanol	Fair
MEK	Fair
Propylene Glycol	Very Good



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DIRECTIONS: Surfaces must be clean, dry, and preferably roughened for maximum adhesion.

Squeeze out equal volumes of resin and hardener. Volume Ratio is 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 ALUMBOND putty will be hard in approximately 45 minutes. FULL cure times are as follows:

<u>TEMPERATURE</u>	<u>WORKING TIME</u>	<u>FULL CURE TIME</u>
60°F (16°C)	90 Minutes	32 Hours
75°F (60°C)	45 Minutes	16 Hours
90°F (32°C)	25 Minutes	8 Hours

HY-POXY ALUMBOND will not cure properly below 40°F (4°C).

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.

H-1 STRONGSTEEL TDS