HYPOXY STEEL FAST

4 MINUTES QUICK STEEL REPAIR PUTTY

PRODUCT: H-7 2.28 Oz/ 64 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 STEEL FAST hardens to a gray metallic mass in 4 minutes time and adheres soundly to almost every material except for polyethylene.

HYPOXY STEEL FAST adheres & bond on oily surfaces as well which makes it most suitable to arrest online oil leakages from Transformers, Gear Boxes, Flange Joints etc..

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

STEEL FAST is unaffected by water, oil and gasoline and widely used by professional tradesman worldwide.

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

PHYSICAL PROPERTIES:

Color -:	Dark Grey
Pot Life 1 lb. @ 24ºC (75°F) -:	5 minutes
Viscosity -:	Trowelable Paste
Mixed Viscosity -:	330,000 cps
Cure Shrinkage -:	0.0003 in/in
Temperature Resistance -:	195°F (90ºC)
Hardness (Shore, ASTM D 1706) -:	75D
Cured Density -:	13.2 cu. In. per lb.
Coefficient of Thermal Expansion -:	60 X 10^{-6} cm/cm/ºC
Compression Strength (ASTM D 695)	5,900 psi (41 M Pa)
Tensile Strength (ASTM D 638)	2,200 psi (15 M Pa)
Adhesive Tensile Shear (ASTM D 1002) -:	2,615 psi

CHEMICAL RESISTANCE:

Hydrochloric Acid 10% -:	Very Good
Hydrochloric Acid 50% -:	Unsatisfactory
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 -:	Unsatisfactory
MEK -:	Fair
Propylene Glycol -:	Very Good

TYPICAL APPLICATIONS -:

1. **REPAIR A LEAKING PIPE –**
   a. Clean, dry and roughen the area around the leak.
   b. Cut a piece of the fibre glass tape long enough to wrap around the leaking area three times.
   c. Throughly mix the HYPOXY STEEL FAST as instructed on packaging.
   d. Spresd the mixed HYPOXY STEEL FAST on one side of the fibre glass tape and wrap the tape three times around the leaking area of the pipe. HYPOXY STEEL FAST side down.
   e. Thoroughly cover the exposed side of the tape with more HYPOXY STEEL FAST and allow it to cure.

**The cost savings are substantial when you repair a leak with HY-POXY® STEEL FAST instead of replacing the pipe. Plus HY-POXY® STEEL FAST does not corrode so the repaired area will outlast the rest of the pipe

2. **REPAIRING A CRACKED ENGINE BLOCK**
   a. Clean, dry and roughen the area around the crack.
   b. Thoroughly mix HY-POXY® STEEL FAST as instructed on the packaging.
   c. Spread the HY-POXY® STEEL FAST over the crack and surrounding area to a thickness of at least 1/2" (12.55mm)
   For a larger gap or hole follow the same procedure but attach a wire or fibreglass screen across the gap as a backing for the HY-POXY® STEEL FAST.

**The savings by using HY-POXY® STEEL FAST for this repair are at least the cost of a new block!

3. **Fill a blow hole in a casting.**
   a. Clean and dry the cavity as much as possible.
   b. Thoroughly mix the HY-POXY® STEEL FAST 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 out equal volumes of resin and hardener. Volume Ratio is 1:1.
-Mix thoroughly for 2 minutes, ensure 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 STEELFAST putty will be hard in approx. 4 hours. FULL cure times are as follows:

TEMPERATURE	WORKING TIME	FULL CURE TIME
40°F (4°C)	12 Minutes	5 Hours
60°F (16°C)	7 Minutes	2 Hours
75°F (24°C)	**5 Minutes**	**1 Hours**
90°F (32°C)	3 Minutes	1/2 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

HY-POXY SYSTEMS INDIA PVT LIMITED

NEW DELHI – 110075. INDIA.
Mobile :- +91 9810247468, +91 9810352249
Tel. :- +91 11 28082018, Fax :- +91 11 45629850
E mail :- salesindia@hypoxy.com
Web site :- www.hypoxy.com