# TECHNICAL DATA SHEET

## STEELFAST PUTTY

**PRODUCT:** H-120 1 lbs.(454 grams) Rapid Repair Kit Stock Number 00120

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

**APPLICATIONS:** H-120 is especially formulated for very fast, emergency repairs where a putty is needed and where there is no constant exposure to water. For other types of applications, consult your distributor, salesman or write directly to our technical department at P.O.Box 6988 Hilton Head, SC 29938 U.S.A.

| **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 |

**DIRECTIONS:** Surfaces must be clean, dry, and preferably roughened for maximum adhesion. The working time for the H-120 is only 5 minutes so all preparations must be completed prior to mixing.

Add all of the hardener to all of the resin in the resin container. For smaller portions, dole out 1 part hardener to 1.5 parts resin by volume (1 to 4 parts by weight).

Mix thoroughly without interruption for 2 minutes, making certain that all of the hardener comes in contact with all of the resin. While mixing be sure to scrape the sides and bottom of the container.

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. Since HY-POXY will not adhere to polyethylene, a piece of that plastic can be placed on the uncured HY-POXY and removed after the material cures to leave a very smooth finish.

**CURING TIME:** At 75°F (24°C) a ½" (12.5mm) layer of HY-POXY STEELFAST putty will be hard in approximately 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 (60°C)** | **5 Minutes** | **1 Hours** |
| 90°F (32°C) | 3 Minutes | 1/2 Hours |

HY-POXY STEELFAST 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.

STEELFAST H-120 TDS