



# TECHNICAL DATA SHEET

## WEAR RESISTANT PUTTY SELF-LUBRICATING

**PRODUCT:** H-500 1 lbs.(454 grams) Wear Resistant Repair Kit Stock Number 00500

**DESCRIPTION:** A two component, room temperature curing wear resistant epoxy compound consisting of epoxy resins, highest quality additives, internal lubricants and modified curing agents. Excellent chemical resistance!

**APPLICATIONS:** Wear Resistant is especially formulated for lining pump housings, impellers, machine beds and slow speed bearings. Ideal for plastic tooling, models for duplicating machines, and any application where a smooth wear-resistant surface is desired.

| <b>PHYSICAL PROPERTIES:</b>          |   |
|--------------------------------------|---|
| Color                                | Dark Grey                               |
| Pot Life 1 lb. @ 24°C (75°F)         | 45 minutes                              |
| Viscosity                            | Non-sagging Paste                       |
| Coverage                             | 1/8" Thickness- 128 sq. inches per lbs. |
| Hardness (Shore, ASTM D 1706)        | Shore D 85                              |
| Density                              | 16 cu. in. per lb.                      |
| Adhesive Tensile Shear (ASTM D 1002) | 2,332 psi                               |

| <b>CHEMICAL RESISTANCE:</b>  |           |
|------------------------------|-----------|
| Hydrochloric Acid 10%        | Excellent |
| Hydrochloric Acid 50%        | Excellent |
| Sulfuric Acid 10%            | Excellent |
| Sulfuric Acid 50%            | Excellent |
| Water                        | Excellent |
| Ammonia                      | Excellent |
| Sodium Hydroxide 10%         | Excellent |
| Gasoline, Oil, Kerosene      | Excellent |
| Mineral Spirits              | Excellent |
| Toluene                      | Good      |
| Methanol                     | Fair      |
| MEK                          | Fair      |
| Propylene Glycol             | Excellent |
| Brake Fluid                  | Excellent |
| Ethanol                      | Excellent |
| Trisodium Phosphate 5%       | Excellent |
| Sodium Hypochlorite (Bleach) | Excellent |



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**DIRECTIONS:** Surface preparation is critical. Surfaces must be clean, dry, and preferably roughened for maximum adhesion.

Add all of the hardener to all of the resin in the resin container. For smaller portions, dole out 1 part hardener to 4 parts resin by volume or 9 to 1 by weight.

Mix thoroughly for at least 6 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.

**COVERAGE:** 1lb. covers approximately 128 square inches at 1/8" thickness.

**WORKING LIFE AND CURING TIMES:** At 75°F (24°C) a 1/8" (3mm) layer of Wear Resistant putty will be useable in approximately 4 hours. FULL cure times are as follows:

**(POT LIFE)**

**TEMPERATURE    WORKING TIME    FULL CURE TIME**

|             |            |          |
|-------------|------------|----------|
| 60°F (16°C) | 90 MINUTES | 32 HOURS |
| 75°F (24°C) | 45 MINUTES | 16 HOURS |
| 85°F (30°C) | 25 MINUTES | 8 HOURS  |

**Wear resistant putty 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.

WEAR RESISTANCE PUTTY H-500 TDS