

# DURO-STIK

## Steel Putty

### GENERAL DESCRIPTION

**DURO-STIK** is an extremely fast curing putty material, packaged in a single tube for easy mixing and use. Ideal for storing in toolboxes to make quick repairs or to stop leaks in steel, aluminum, fiberglass or concrete.

### FEATURES

- Fool proof mixing
- Very good chemical resistance
- Excellent temperature and thermal shock resistance
- Short setup times
- May be applied up to thicknesses of 1 inch or more
- Can be applied underwater

### PACKAGING

4 oz stick.

### COVERAGE

One stick produces coverage of approximately 28 square inches at a thickness of 1/8 inch.

### POT LIFE

Two minutes.

### COLORS

**DURO-STIK** is dark grey in color.

### TECHNICAL DATA AND INFORMATION

#### Basic Chemical Resistance at Room Temperature:

Dilute Inorganic Acids	Very Good
Organic Acids	Good
Solvents	Good
Alkalis	Excellent
Salts	Excellent
Alcohols	Excellent
Hydrocarbons	Excellent

#### Typical Physical Properties of Cured System:

Density	1.9
% Solids	100
Tensile Strength @ 70°F	6,000 psi
Compressive Strength @ 70°F	18,000 psi
Tensile Shear @ 70°F	1000 psi
Max. Dry Operating Temp	300°F
Operating pH Range	1.5-14.0

### SURFACE PREPARATION

- For maximum adhesion, material should be applied to a firm, clean, dry and abraded surface.
- Best results will be obtained by abrasive blasting the surface.
- If blasting is impractical, a grinding wheel, needle gun, or very stiff wire brush may be used.
- Clean greasy, oily or waxed surfaces with suitable solvent before applying material.

### MIXING

Break or cut off desired amount of material. Knead and mix the material until it is uniform in color, no streaks. Use immediately.

### CLEANUP

Most solvents and commonly used thinners such as MEK, acetone, xylene, 1,1,1 trichloroethane, and safety solvents such as Ensolv, etc., can be used for cleaning tools and equipment. However, as many of these materials are flammable or present other safety hazards, the user should read the MSDS for these materials before using. In no event should these materials be used to clean material from the skin, eyes or clothing.



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## APPLICATION

**DURO-STIK** is best applied with a squeegee, or putty knife. Press material thoroughly into substrate and insure a completely wetted out surface. Build up to the required thickness. Large cracks or holes can be bridged with glass or metal cloth.

- Min. Thickness/Coat (mils) 30
- Max. Thickness/Coat (mils) 2000
- Number of Coats 1-2
- Min. Application Temperature (°F) 40

For best results, do not apply:

- When humidity is over 90%
- When there is moisture on the surface
- When surface temperature is not 5°F above dew point

## OVERCOATING

**DURO-STIK** may be overcoated with other **DUROMAR** materials such as **EAC** or **EXP** for enhanced smoothness or increased chemical resistance. Overcoating may begin as soon as the first coat is firm enough to accept a second coat. In high humidity or cold temperatures a blush may develop which should first be wiped down with clean water. The following table is an approximate guide to the earliest and latest times an overcoat may be applied.

### DURO-STIK Overcoating Window

55°F	70°F	85°F
30 min - 5 h	20 min – 4 h	10 min – 2 h

## CURING @ 70°F

- Dry to Touch 20 minutes
- Functional Cure 45 minutes
- Full Cure (hours) 2

## Q/C

The material should be visually inspected just after application and touched up where necessary. The material can be spark tested if necessary. Therefore extreme care must be used when inspecting the surface.

## STORAGE/SHELF LIFE

Store in dry area in closed containers between 50°F and 100°F. Shelf life at these conditions is greater than one year.

## HEALTH AND SAFETY

READ AND UNDERSTAND ALL MATERIAL GIVEN IN THE MSDS SHEETS BEFORE USING THE PRODUCT.

**DURO-STIK DOES NOT CONTAIN ANY FLAMMABLE MATERIAL OF ANY KIND. HOWEVER, THE MATERIAL IS COMBUSTIBLE. IN THE EVENT OF A FIRE, DRY POWDER, FOAM, OR CARBON DIOXIDE FIRE EXTINGUISHERS SHOULD BE USED. FIRE FIGHTERS SHOULD WEAR RESPIRATORS.**

USE PROTECTIVE GLOVES AND EYEGLASSES WHEN USING.

USE IN AREAS OF GOOD VENTILATION.

## LIMITED WARRANTY

All recommendations covering the use of this product are based on past experience and laboratory findings. Methods or conditions of application and use of the product are beyond our control. We assume responsibility only for the uniformity of our product within normal manufacturing balances.

All Duromar products are formulated based on over 25 years of experience, laboratory tests, material data, field installations, and technical publications, which we believe to be, to the best of our knowledge, accurate and reliable. This information is intended to be used for guidance only. Because the only true reliable test is one that is in actual operation, Duromar will make available at no charge samples of materials for that testing purpose. Duromar, Inc. has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Duromar, Inc. does, therefore, not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise). The data contained herein is liable to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues, and it is, therefore, the user's responsibility to ensure that this sheet is current prior to using the product.

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