PRODUCT DATA SHEET

DuroCaulk-EU

Epoxy/Urethane Caulk

GENERAL DESCRIPTION

DUROCAULK-EU is an elastomeric epoxy urethane system, which is designed to be used with epoxy systems as a flexible repair and caulking compound. It is used primarily to fill expansion joints and cover joints. It can be overcoated with other **DUROMAR** linings or maintenance products to enhance physical or chemical properties, if required.

FEATURES

- Elongation to 100%
- Cures at temperatures as low as 60ºF
- No toxic fumes
- Good bond strengths

PACKAGING

DUROCAULK-EU is available in 1 gal and 1 kg units

COVERAGE

DUROCAULK-EU can be applied with a thickness as small as a 1/16" radius bead to a maximum of 2 inches. Theoretical coverage, for one gallon, is 100 linear feet based on a 1/2" radius bead in thickness. Different thickness of the applied bead will change the linear foot coverage.

MIXING RATIO

3.6 parts base (B) to 1 part (A) hardener by weight

3.6 parts base (B) to 1 part (A) hardener by volume

POT LIFE

Working time of material is about 40 minutes.

COLORS

DUROCAULK-EU is available in grey and red.

TECHNICAL DATA AND INFORMATION

Basic Chemical Resistance at Room Temperature:	
Inorganic Acids	Good
Organic Acids	Good
Solvents	Good
Alkalis	Good
Salts	Excellent
Alcohols	Good
Hydrocarbons	Good

Typical Physical Properties of Cured System:	
Density	1.09
% Solids	100
Tensile Strength @ 70ºF	1,000 psi
Tensile Adhesion @ 70ºF	750 psi
Max. Dry Operating Temp	250ºF
Operating pH Range	2.0-14.0
Durometer Shore A	60
Elongation	100%

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

Mix ALL of Part A with ALL of Part B in the Part B bucket. If the materials are cold, warm them to about 70ºF before mixing.

CLEANUP

Most solvents and commonly used thinners such as MEK, acetone, xylene, I,I,I 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.

Registered to ISO 9001

706 Washington Street, Pembroke, MA 02359 USA • Tel. (781) 826-2525 • Fax (781) 826-2150
www.duromar.com

APPLICATION

DUROCAULK-EU may be applied using either a caulking gun or by hand, using a small trowel or putty knife. Press material thoroughly into the substrate and build up to meet the desired thickness. Smooth over to create the desired surface.

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

For best results, do not apply:

- To oily surfaces

OVERCOATING @ 70ºF

DUROCAULK-EU can be overcoated to obtain additional chemical resistance. Overcoating can be done as soon as the surface will not be disturbed by the overcoating process. Since **DUROCAULK-EU** has a thick paste consistancy, with care, overcoating can be done almost immediately after application.

DUROCAULK Overcoating Window

55ºF	70ºF	85ºF
10 - 96 h	6 - 72 h	4 - 48 h

CURING @ 70ºF

- Dry to Touch (hours) 8
- Functional Cure (hours) 36
- Full Cure (hours) 120

Q/C

The material should be visually inspected just after application and touched up where necessary.

FORCE CURING

Force cures are recommended for severe service conditions as both the physical and chemical properties are enhanced. Force curing should not start until material has firmly set.

Recommended Force Cure Schedule:

- Full Cure 4 hours @ 180ºF
- Functional Cure 8 hours @ 120ºF

STORAGE/SHELF LIFE

Store in dry area in closed containers between 50ºF and 100ºF. 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.

DUROCAULK 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.

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