PRODUCT DATA SHEET

DURO-TRAC

Heavy Duty Traction

GENERAL DESCRIPTION

DUROMAR DURO-TRAC is a versatile, high-performance epoxy system designed for demanding industrial maintenance and flooring applications. Engineered for extreme durability, it is widely used as a binder for anti-skid surfaces and traction systems, including those in high-load environments such as automotive brake testing facilities. DURO-TRAC delivers superior grip under both wet and dry conditions, making it ideal for areas requiring maximum traction and long-term performance.

FEATURES

- Outstanding traction in both wet and dry conditions
- Proven durability under extreme mechanical loads
- Excellent chemical and thermal resistance
- Flexible yet abrasion-resistant formulation
- Ideal binder for anti-slip/anti-skid flooring with aggregate media

PACKAGING

1 Liter, 3.8 Liter (1 US Gallon), 15.2 Liter (4 Gallon)

COVERAGE

DURO-TRAC has the consistency of a thick paint and can easily be applied up to 60 mils per coat. However, typical broadcast-to-refusal or rejection applications require a minimum of 20 mils to provide a solid binder layer for aggregate adhesion. Theoretical coverage at 20 mils (0.020") = 80.5 sq. ft. per US gallon (3.8 L)

While a single coat may be sufficient in many applications, a second layer of equivalent thickness is recommended to fully encapsulate and lock in the aggregate, ensuring long-term performance and mechanical stability.Theoretical coverage for a two-layer system at 40 mils (0.040") = 40.2 sq. ft. per US gallon (3.8 L).

MIXING RATIO

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

POT LIFE

For a 1L unit, mix at 70ºF, pot life is approximately 45 minutes. Higher temperatures or larger mass will shorten this time, lower temperatures or smaller mass will extend it. Pot life can also be extended by spreading the mass out to dissipate heat.

COLORS

DURO-TRAC is grey in color. Other colors like black, red, and ANSI Safety Colors available upon request.

TECHNICAL DATA AND INFORMATION

Basic Chemical Resistance at Room Temperature:

Inorganic Acids	Very Good
Organic Acids	Good
Alkalis	Excellent
Salts	Excellent
Alcohols / Solvents	Good
Hydrocarbons	Very Good
Oils / Lubricants	Excellent

Typical Physical Properties of Cured System:

Density	1.26
% Solids	100
Flexural Strength @ 70ºF	17,000 psi
Tensile Strength @ 70ºF	9,000 psi
Tensile Shear @ 70ºF	3,000 psi
Max. Dry Operating Temp	250ºF
Operating pH Range	2.0-14.0

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

Mix ALL of Part A with ALL of Part B. Mixing may be done in a container large enough to hold both the base and hardener. The selected container must be clean and dry. Mix the material thoroughly until no streaks of any kind are visible. If materials are cold, warm them to 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

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APPLICATION

DURO-TRAC is best applied with a stiff bristled brush, squeegee, or the plastic applicator supplied with the kit. Press material thoroughly into substrate and insure a completely wetted out surface. Build up to the required thickness with a second pass. Large cracks or holes should be bridged with glass or metal cloth. Reinforcement should be overcoated.

- Min. Thickness/Coat (mils) 10
- Max. Thickness/Coat (mils) 60
- Number of Coats 1-2
- Min. Application Temperature 50ºF

For best results, do not apply:

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

OVERCOATING

For pinhole control and/or thicker buildup, two or more coats may be employed. 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-TRAC Overcoating Window

55ºF	70ºF	85ºF
12-144 h	6-120 h	4-96 h

At 70ºF, if 120 hours have elapsed or the material is dry to the touch, it must be roughened before overcoating. The preferred method is a light abrasive brush blasting. Other treatments are light sanding, grinding or wire brushing.

CURING @ 70ºF

- Dry to Touch (hours) 8
- Functional Cure (hours) 48
- Full Cure (hours) 120

Q/C

The material should be visually inspected just after application and touched up where necessary. The material may also be spark tested once a full cure has been attained. A general rule is to spark test at a voltage of 100 volts per mil of thickness. Any imperfections should be handled according to the overcoating procedures outlined above.

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 110ºF. 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-TRAC 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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