

4330

High Performance Lining

GENERAL DESCRIPTION

DUROMAR 4330 is a trowellable, 100% solids novolac lining with outstanding chemical resistance. It is primarily used in areas requiring the ultimate in chemical and abrasion resistance. It is most efficiently applied by grout pump. It can also be applied by trowel or squeegee.

CHEMICAL DESCRIPTION

Novolac epoxy with a uniquely modified cycloaliphatic amine hardener.

Typical Properties

Components	2
Visual Appearance	High Gloss
Density	1.61
Solids by weight	100%

Chemical Data @ 70°F

pH Range	0.5-14.0
Inorganic Acids	Excellent
Organic Acids	Very Good
Alkalis	Excellent
Solvents	Very Good
Hydrocarbons	Excellent

Typical Physical Properties

Max. Dry Operating Temp (°F)	425
Functional Cure	48 hrs.
Full Cure	168 hrs.
Repair System	EXP
Surface Prep	SSPC-5
Adhesion	Excellent
Flexibility	Good

Application Information

Pot Life @ 70°F	30 min.
Equipment	Trowel, Squeegee
Number of Coats	1-2
Theoretical Coverage	40 ft ² /gal/40 mils
Film Thickness/Coat	40 mils min. 80 mils max.
Max. DFT	125 mils
Recoat Time @ 70°F	3 hr. min. 8 hr. max.
Min. Application Temp.	65°F
Mixing Ratio by Weight	2:1 (B/A)
Mixing Ratio by Volume	2:1 (B/A)
Dry to Touch	3 hrs.

FORCE CURING

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

STORAGE

This product has a minimum shelf life of one year when stored in a dry area at 50°-100°F in the original sealed container.

HANDLING/SAFETY

Warning! Eye and skin irritant. May cause dermatitis and sensitization.

Always read and understand the product MSDS.

Avoid contact with eyes, skin or clothing. Avoid breathing vapor, mist or spray. Use with good ventilation.

FIRST AID

In case of contact:

Eyes: Immediately flush with water for at least 15 minutes.

Skin: Immediately remove from skin with dry cloth followed by thorough washing with soap and water.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen.

Ingestion: Give large quantity of milk or water, induce vomiting. Contact a physician immediately.

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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General Application Guidelines

Always read and understand the specific product Data and MSDS sheets and the **DUROMAR Application Manual** before using these High Performance Lining Products. For more information contact **DUROMAR** at 781-826-2525 or by email at help@duromar.com.

I. STORAGE:

Store all product in a clean, warm area where the temperature remains between 60-90°F (15-30°C). Cold products are very viscous and will be difficult to mix and apply.

Products shipped during cold months can remain cold for many days even when stored as recommended. Paste or trowel applied products will remain cold longer than liquid or spray applied products. Heating of the individual components may be required to bring the products to the recommended temperatures.

II. SURFACE PREPARATION: SSPC-SP 5

All surfaces to be lined are to be clean, dry, and oil free. Refer to the Application Manual for specific instructions for various surfaces such as concrete, metal fiberglass, etc.

Minimum surface temperature during application - refer to Product Data Sheet.

For Brush, Roller, or Spray Applied Products, the surface profile must be 3 mils minimum.

For Trowel Applied Products, the surface profile must be 4 mils minimum.

III. APPLICATION EQUIPMENT:

Brushes - short bristle, nylon, and non-shedding. Replace when products become hot or stiff.

Rollers - short nap (3/8" max.) non-shedding, with a polyethylene core. Replace when products become hot or stiff.

Airless Spray Equipment and Application recommendations are listed in the **DUROMAR Application Manual**.

For plural component system application information contact **DUROMAR**.

IV. MIXING:

Do not add solvent to any **DUROMAR** product. These 100% solids materials are formulated to be applied as shipped after proper mixing.

The temperature of the Hardener (A) and Base (B) portions should be between 70-80°F (20-25°C). Mix them separately to insure a uniform consistency.

Add the entire contents of the Hardener (A) to the Base (B) bucket. Use a brush or squeegee to assist in the transfer. These portions are accurately measured and best product performance will be obtained if all the Hardener and Base is combined. Pouring from one container to the other (boxing) during mixing is very helpful in insuring complete mixing.

Mix the products until no streaking is observed and then for about one (1) minute longer.

V. APPLICATION:

For hand application, immediately break down the full unit into smaller portions such as roller pans, small buckets, or trowel boards. This will keep the product cooler and improve the useable life.

For spray application using a single component airless system, see Section 4.1.1 in the **DUROMAR Application Manual**. For spray applications using plural component equipment make sure all components are working according to the manufacturers' instructions and the product components are at the recommended temperature before spraying.

VI. AMINE BLUSH:

When applying multiple coats of any epoxy products, always check for Amine Blush before applying the next coat. Amine Blush may occur when the epoxy surface is cool or in humid environments. It has the appearance and feel of a light oil film on the surface. When dry it has a white chalky appearance. If detected, wash the surface with a 2% hydrochloric acid solution followed by a water wash until the surface pH is between 6-8. Allow to dry before applying the next coat.

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