

HydroFlor® Breathable Floor

GENERAL DESCRIPTION

DUROMAR HYDROFLOR® is an innovative, zero VOC epoxy floor coating. It has a unique breathable structure, which allows moisture vapor to escape from the concrete. The coating is easy to apply.

HYDROFLOR® has a matte, anti-slip finish. It is recommended to first apply **HYDROFLOR® SEALER** to prevent outgassing during application.

FEATURES

- Zero VOC, solvent-free
- 7-8x more breathable than a standard epoxy flooring system
- Excellent adhesion to properly prepared concrete
- Outstanding resistance to mechanical abuse

CHEMICAL DESCRIPTION

Multifunctional epoxy, with a uniquely modified amine hardener.

Typical Properties

Components	4
Visual Appearance	Matte Finish
Density	2.04
VOC content	0.0%

Chemical Data @ 70°F

pH Range	1.5-14.0
Inorganic Acids	Good
Organic Acids	Good
Alkalis	Excellent
Solvents	Good
Hydrocarbons	Good

Typical Physical Properties

Max. Dry Operating Temp	250°F
Functional Cure @ 70°F (Light Foot Traffic)	24 hrs
Full Cure @ 70°F (Full Service Cure)	120 hrs.
Surface Prep	SSPC-13 ICRI CSP 3-7
Adhesion	Excellent
Flexibility	Good

Application Information

Pot Life @ 70°F	45 min.
Equipment	Brush, Roller, Squeegee
Number of Coats	1-2
Theoretical Coverage	50 ft ² /gal @ 30 mils WFT
Film Thickness/Coat	30 mils min WFT. 60 mils max WFT.
Max. DFT	120 mils.
Recoat Time @ 70°F	12 hr. min. 96 hr. max.
Min. Application Temp.	60°F
Mixing Ratio by Weight	1:1 (B/A)
Dry to Touch	6 hrs.

FORCE CURING

Contact **DUROMAR** for specific instructions.

STORAGE

This product has a minimum shelf life of one year when stored in a dry area at 50-110°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.



Registered
to ISO 9001

General Application Guidelines

HydroFlor®

Always read and understand the specific product Data and MSDS sheets and the **DUROMAR Information and Application Guide** 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 products in a clean, warm area where the temperature remains between 50-110°F (10-43°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:

ICRI CSP 3-7 / SSPC-SP13

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

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.

IV. MIXING:

Do not add solvent to any **DUROMAR** products. These 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.

For a 2 gallon unit of **HYDROFLOR®** add the entire contents of part B (Base), part A (Hardener) and 48 ounces of clean water to the 5 gallon bucket. Mix contents **thoroughly** until all components are completely incorporated and no streaking is observed. Then slowly add entire contents of part C (Filler) and mix thoroughly making sure Part C (filler) is completely incorporated. If needed, to assist in the self leveling process, 8 ounces of water can be added and mixed **thoroughly**. 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.

V. APPLICATION:

For flooring applications: After mixing all contents as instructed, immediately pour out into a ribbon on the surface. Squeegee the material out evenly and check for desired film thickness by using a wet-film thickness gauge. Back-rolling may be necessary in certain applications.

For hand application: After mixing all contents as instructed, immediately break down the full unit into smaller portions such as roller pans, small buckets. This will keep the product cooler and improve the useable life.

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