

DESCRIPTION: RhinoCoat FM (Flexible Membrane) is a high quality, flexible epoxy formulation which has superior elongation. Modified for added adhesion properties, RhinoCoat FM also has flexibility of up to 150%. It contains no solvents and is 100% solids, assuring easy application and highest performance.

FEATURES & BENEFITS:

- Medium viscosity
- Excellent bonding
- Dries to a high gloss
- 100% solids, no solvents
- Highly resistant to cratering or blush
- Low odor

APPLICATIONS:

- Flexible coatings
- Joint compounds
- Mortars
- Grouts
- Highly filled compounds
- Flexible laminates and adhesives.

CHEMICAL PROPERTIES:	Result
Viscosity, cps	950 - 1200
Solids by Volume/Weight	100%
Volatile Organic Compounds	0 lbs/gal
Mix Ratio, parts per volume	1A :1B
Pot Life, minutes	25 - 30 minutes
Dry to Touch @ 70°F (21°C)	2 hrs
Walk on Time (light foot traffic)	3 - 4 hrs
Full Cure	7 days
Coverage Rate per Gallon	100 – 200 sqft (2.0 – 4 sm/l)
Recommended Application Temperature	41° – 100°F (5° – 38°C)
Odor	Low
Flash Point, closed cup	340°F (170°C)
Color	Light amber
Shelf Life - unopened containers	12 months

RHINOCOAT FM (continued):

PHYSICAL PROPERTIES:	Test	Result
Hardness (Shore D)	ASTM D-2240	42
Tensile Strength (psi)	ASTM D-638	2250
Elongation (%)	ASTM D-638	150
HDT	ASTM D-648-264	25°F (-3.8°C)
Water Absorption, gain in 24 hrs (%)	ASTM D-695	<1
Flexural Strength (psi)	ASTM C-580	13,000 - 13,800
Bond Strength	Greater than cohesive strength of 3,000 psi concrete, <400 psi	
Temperature Resistance	Continuous Exposure	Up to 150 F

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier are subject to possible moisture vapor transmission or hydrostatic pressure problems. These problems can cause a coating system to blister or fail. Before applying a coating system over a concrete floor which is on-grade or below grade, a moisture test is recommended to ensure that moisture content meets industry recommended standards.

SURFACE PREPARATION: Substrate surfaces must be structurally sound and free from contaminants such as dust, oil or dirt. Surfaces must be shot blasted or mechanically abraded to achieve a minimum 5-mil profile. Free-standing water must be removed. Do not apply over previously applied epoxies or coatings.

MIXING INSTRUCTIONS: A thorough and complete mixing is critical. First mix each component separately. Proportion each component at the ratio of 1 part A (resin) to 1 part B (hardener) by volume or if using 1-gallon kits, pour all of Part B (hardener) into Part A (resin). Mix for 3 – 5 minutes, scraping the mixing container sides and bottom regularly. Mix no more material than may be applied in 20 minutes.

APPLICATION METHODS: First apply mixed product by brush to inside surface of joint to be filled as a prime coat. After priming, fill the joint with a mixture of RhinoCoat FM and #60 silica sand using a 5 inch wide putty knife. Mix 1 part RhinoCoat FM with 1 – 2 parts of #60 silica sand using a stir stick to create a paste like mixture. The RhinoCoat FM and sand mixture is then pressed into the joint to fill it level to the surrounding surface with the putty knife to create a seamless floor. If needed, the RhinoCoat FM and sand mixture can be ground using a 4 inch grinder and an aluminum oxide grinding disc to provide a smooth uniform surface.

NOT RECOMMENDED FOR: Do not apply to concrete less than 28 days old.

SUBSTRATES: Concrete and steel

COLOR OPTIONS: Light amber and 16 Universal Color Pack options (see Rhino Flooring Color Guide)

HOW SUPPLIED: RhinoCoat™ FM is packaged in a 2 gallon kit.

SLIP/FALL PRECAUTIONS: Rhino Linings recommends using slip resistant granules in all outdoor applications where the epoxies and urethanes will be used as a topcoat sealer and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Aluminum oxide granules #80 grit or courser may be broadcast into the prime coat to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Rhino Linings or its sales agents will not be responsible for injury incurred in a slip/fall accident.

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Flooring® Safety Data Sheets (SDS) Chemical systems require the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.