MRB Primer
Data Sheet

Part # MRB

DESCRIPTION: Concrete Solutions® MRB Primer (moisture resistant barrier) is an acrylate aqueous dispersion which when applied develops into a strong, durable, flexible coating that adheres tenaciously to clean bare surfaces. It is non-toxic, user friendly, odorless, clear drying, non-flammable and penetrates into the surface to provide a moisture resistant primer for surfaces with eight pounds or less. For floors over eight pounds, it is recommended to use Concrete Solutions Moisture Guard as the first coat followed by MRB Primer as the second coat. MRB Primer is designed to help prevent coating applications from blistering or delaminating due to moisture vapor transmission problems from below a concrete slab. It helps increase the bond of any coating material applied over it. MRB Primer also helps to balance the pH levels on the surface giving added life to any coating that will be applied over the concrete. MRB Primer is not a guaranteed solution against moisture vapor transmission problems but does offer extra protection and insurance against moisture related flooring problems. The only way to measure the success of an MRB Primer application is to have a calcium chloride moisture test performed on the surface before and after the MRB Primer is applied.

TYPICAL USES: MRB Primer is a penetrating primer over concrete surfaces to help protect against moisture problems of up to 8 pounds or less. It is most commonly used as a moisture resistant primer before applying a Concrete Solutions Polymer Concrete ¼" Stamping (Stamp-Top™), Fine Broom Finish, Bond (Resurfacer) Coat, Trowel Knockdown (Texture-Top™) or Spray-Top® application.

FEATURES & BENEFITS:

- Balances pH levels
- Stops glue failure; gives added life to adhesives
- Provides extra strength, flexibility and integrity
- Improves dusting resistance
- Excellent paintability
- Environmentally friendly - VOC/VOS compliant
- Easy cleanup with water
- Excellent coating or topping primer
- Improves acid and chemical resistance

CHEMICAL PROPERTIES:	Test	Result
Specific Gravity (grams/cc)	ASTM D-792	1.04
Solids		25 – 30%
Coverage Rate per Gallon		300 – 400 sqft
Recommended Temperature Application		≥55°F (13°C)
PH		7 – 8
Color		milky white (dries clear)

TYPICAL PHYSICAL PROPERTIES:		Test	Result
Elongation (%)	-at 3 mils	ASTM D-412	100
	-at 10 mils		400

MOISTURE VAPOR TESTING: All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems which 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, the customer should be informed of this potential problem and given the option to have a qualified moisture testing company perform calcium chloride test to give the proper recommendations.

SURFACE PREPARATION: Surface Preparation is often the most important part of a successful coating or resurfacing application. Surface must be clean, sound, and free from oil, dirt, waxes, or any other contaminant that may interfere with bonding. Popular methods of surface preparation include grinding, shotblasting, and/or scrubbing with detergent, acid etching, neutralizing, and pressure washing. The type of surface preparation needed will depend on the condition of the substrate to be repaired, resurfaced, textured, stamped, colorcoated and/or sealed. For commercial and industrial indoor jobs, grinding is required to prepare the surface. For residential indoor jobs, scrubbing with detergent, acid washing, neutralizing, rinsing and wet/dry vacuuming is recommended. For most outdoor jobs, the surface can be cleaned by detergent scrubbing, acid washing and pressure washing. See Surface Preparation in Concrete Solutions Training Manual for step by step instructions.

APPLICATION INSTRUCTIONS: Do not apply less than 55°F (13°C). Apply at a coverage rate of 300 – 400 sq. ft. per gallon using a medium nap paint roller. For the quickest method, spray the MRB Primer in sections using a

CONCRETE SOLUTIONS® MRB PRIMER *(continued)*:

pump-up type sprayer, then immediately back roll with a 3/8 – 1/2" nap paint roller to leave a thin, even coat with no puddles. Allow to cure 4 – 6 hours or more, before applying any Polymer Concrete applications. Allow 24 hours before applying an epoxy or urethane application.

Note: For the best protection against Moisture Related Problems when doing polymer concrete applications, apply Moisture Guard as the first coat and MRB (moisture resistant barrier) Primer as the second coat. Before applying epoxy and urethane or color flake flooring applications it is recommended to apply Moisture Guard as the first coat and Epoxy 200 as the second coat. When using Moisture Guard, allow it to dry for 24 hours, then pressure wash or rinse the surface before applying MRB primer or Epoxy 200 over it.

NOT RECOMMENDED FOR: Do not use directly under Spray-Top when acid staining, unless applying Concrete Solutions Resurfacer over the MRB Primer.

HOW SUPPLIED: MRB Primer is supplied in one gallon and five gallon pails.

STORAGE: 50° – 85°F (10° – 29°C)

SAFETY PRECAUTIONS: Health Considerations: Consult the Rhino Linings® 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.

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