



MVB-RAPID CURE

Fast Cure Moisture Vapor barrier epoxy coating

PRODUCT DESCRIPTION

MVB- RAPID CURE is a 100% solid, two component super-fast cure moisture vapor barrier epoxy coating, component, designed to be used as a moisture vapor retarder for concrete and a variety of finished floor coverings such as vinyl tiles and sheeting, hard wood etc. It can be used as a primer, bonding agent as well as top coat. It cures at ambient and low temperature conditions. It also exhibits excellent mechanical properties. **MVB-RAPID CURE** controls moisture vapor emission rates up to 25 lb. /24 hr. /1000 square feet while providing excellent mechanical properties and good chemical resistance.

APPLICATIONS

MVB-RAPID CURE is suitable for:

- . Classrooms
- . Laboratories,
- . Mechanical rooms,
- . Areas of light manufacturing and easy maintenance.

ADVANTAGES

- Low odor, Solvent-free
- Low VOC content
- 100% solids
- Aesthetic and high gloss finish
- Good mechanical properties
- Good chemical resistance
- Easy to clean, bacteria and moisture resistant surface

PACKAGING

MVB-RAPID CURE is packaged in factory proportioned packaging for easy handling and mixing.
 Resin (A): 2.0 US Gal
 Hardener (B): 1.0 US Gal

STORAGE

All GFX COATINGS components should be stored in dry, temperature-controlled areas between 12-28°C. Do not expose to freezing or excessive high heat

TECHNICAL DATA @ 25°C

% SOLIDS BY WEIGHT	100%	VOC CONTENT	>40 g/L
GEL TIME 100G @ RT	30-40 Minutes	MIXING RATIO BY VOLUME	100:100
WORKING TIME 100G @ RT	12-18 Minutes	MIXING RATIO BY VOLUME	100:87.50
SUGGESTED # OF COATS	2-3	RECOAT TIME (MIN/MAX)	6 Hours / 24 Hours
FOOT TRAFFIC	24 Hours	LIGHT TRAFFIC	3 Days
FULL CURE	7 Days	SHELF LIFE	12 Months unopened
COMPRESSIVE STRENGTH ASTM D695	10000 psi	BOND RESISTANCE ASTM D4541	500 psi
TENSILE STRENGTH ASTM D638	6000 psi	HARDNESS (SHORE D) ASTM D2240	85-90
PERMEABILITY ASTM D570	0.3%	ELONGATION D638	6.7%
ABRASION RESISTANCE ASTM D4060	0.10 g	MIXED VISCOSITY	1000-1200 cps

PRIOR TO USE APPLICATOR MUST ALWAYS READ AND FOLLOW WARNINGS AND INSTRUCTIONS ON GFX COATINGS . MOST UP TO DATE PRODUCT TECHNICAL DATA SHEETS, PRODUCT LABELS AND MATERIAL SAFETY DATA SHEETS WHICH ARE AVAILABLE UPON REQUEST BY CALLING TECHNICAL SUPPORT DEPARTMENT.

SURFACE PREPARATION

Surface must be clean, sound and dry. Prior to coating a GFX COATINGS floor all trowel marks and surface imperfections must be removed to produce a smooth & uniform surface. Proper surface preparation is critical to ensure an adequate chemical bond to substrate. Substrate must be dry and free of all wax, grease, oils, fats, soil, contaminants, loose or foreign matter and laitance. Concrete should be cleaned and prepared using a shot blast machine or adequate grinding equipment to achieve a CSP-3 to CSP-4 profile as per ICRI guidelines. Compressive strength of concrete should be at least 3,500 psi (24 Mpa) @ 28 days and at least 215 psi (1.5 Mpa) in tension at time of product application.

MIXING

MVB-RAPID CURE is supplied in factory proportioned quantities, to reduce the risk of error during application.

Step 1 - Mechanically premix PART A (resin) with an

appropriate slow speed drill equipped with a Jiffy Mixer, for 1 minute.

Step 2 - Empty the entire content of PART B into container holding PART A and continue and mix slowly for 3 minutes until uniform consistency in texture and color is achieved. Avoid unnecessary entrapment of air during mixing. Make sure to scrape walls and bottom of container with straight edged trowel at least once to ensure homogeneous mix. Make sure to empty ALL contents of PART B into PART A to avoid system weakening or incomplete curing.

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED WITHIN WORKING TIME LIMITS.

POTLIFE

After mixing 100g, MVB-RAPID CURE has a pot life of approximately 12-18 minutes at 25°C. Pot life depends on ambient and surface conditions.

APPLICATION

MVB-RAPID CURE should be applied at temperatures between 15-28°C and humidity below 80%. It is applied with a rubber squeegee and back rolled with a 10mm lint-free nap roller (on smooth surfaces) to remove squeegee lines and smooth out coating. Additional coats may be applied when surface is tack-free (roughly 2 hours). Do not exceed hours for re-coating. By exceeding this re-coat time limit, the entire surface must be lightly sanded to achieve desired profile for a proper mechanical bond. Clean up all dust and debris created by aforementioned sanding prior to applying subsequent coat.

CURING

MVB-RAPID CURE is tack-free in approximately 8 hours at 25°C. Coated area may be put back into service after 24 hours. Curing is complete and full product characteristics are achieved after 5 days. It is dependent upon ambient & surface conditions.

PRECAUTIONS & LIMITATIONS

Prior to application, measure and confirm Substrate Moisture Content, Ambient and Surface temperatures and Dew Point.

Substrate Moisture: Moisture within substrate must be $\leq 4\%$ by mass as measured by Tramex® type concrete moisture meter on mechanically prepared surface.

Dew Point: AVOID CONDENSATION. The substrate must be at least 3°C above Dew Point to reduce risk of condensation. Condensation may lead to failure in adhesion. Avoid situations where substrate temperature is considerably lower than ambient temperature.

Do not add thinners or solvents to mix. Do not add water. Dispose of waste materials in accordance with government regulations. The use of safety glasses

and protective gloves is required. In case of contact, flush areas with abundance of water for 20 minutes and seek medical assistance.

Wash skin with soap and water. Use only in well ventilated areas.

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