

E4E-100-VRM-FASTCURE



Description

E4E-100-VRM-FASTCURE is a 100% solid, two component epoxy coating, made to control the moisture vapor emission rate on deteriorated or new floors. This coating will control moisture vapor emission rates up to 25 lb. /24 hr. /1000 square feet. **E4E-100-VRM-FASTCURE** provides excellent physical and chemical resistance while maintaining its aesthetics. This system has been approved by the Canadian Food Inspection Agency and meets LEED standards.

Primary applications

- ✓ Classrooms
- ✓ Clean rooms
- ✓ Laboratories
- ✓ Areas of light manufacturing
- ✓ Mechanical rooms

Advantages

- ✓ Low odour, Solvent-free, low VOC content
- ✓ Fast return to service
- ✓ 100% solids with an esthetic high gloss finish
- ✓ Superior mechanical resistance
- ✓ Good chemical and physical resistance
- ✓ Easy to clean, bacteria and moisture resistant surface

E4E-100-VRM-FASTCURE



TECHNICAL DATA

Packaging litres / gal us		SHELF LIFE		
3 Gallon kit	15 gallon kit	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.		
Mix Ratio by volume				
A : B = 2 : 1				
<i>*Please note that the indicated mileage is calculated for flat surfaces. A porous or imperfect surface will require more material in order to cover the same mileage.</i>				
Pot life (150g)	VOC (g/litre)	Density (kg/litre)		
8-12 MINUTES	-	Part A	Part B	Mixture
Solids by weight %	Recommended Thinner			-
100%	Xylene			-
Substrate Temperature		10°C	20°C	30°C
Waiting Time /Overcoatability (min / max)		6-7	2-3	1-2
Curing Details	Foot traffic	24 hours	16 hours	8 hours
	Light traffic	4 days	2 days	1 day
	Full cure and chemical resistance	10 days	7 days	5 days
<i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i>				

PROPERTIES @ 23°C (73°F) 50% R.H.

Bond Resistance (psi) ASTM D4541	Permeability (%) ASTM D570			
268 (substrate ruptures)	0.3			
Hardness (Shore D) ASTM D2240	Tensile Strength (psi) ASTM D638			
80-85	5500			
Compressive Strength ASTM D695	Elongation (%) ASTM D638			
6800				
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	Viscosity @ 25 °C (cps)	Part A	Part B	Mixture
	clear	1200-1400	1200 - 1400	1200-1400
	colors	1400-1600	1200 - 1400	1300-1600
Vapor Permeance @ 18mils thickness ASTM E96	0.1 US perm			
MVER/RH @ 18 mil thickness ASTM F1869	25 lb. /24 hr. /1000 square feet			

E4E-100-VRM-FASTCURE



SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, foreign matter, any previous coatings, and disintegrated substances by mechanical means such as shot-blasting (BLASTRAC) or any other approved method to obtain an ICRI-CSP 3-4 profile. The compressive strength of the concrete must be at least 25 MPa (3625 lbs/in²) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in²).

MIXING

The products must be conditioned at a temperature between 18 ° C (65 ° F) and 30 ° C (86 ° F).

Pre-mixed color or clear (A): Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

Part (A) when adding color pod: Incorporate a full colored container into the clear part (A), and then thoroughly mix until the color is uniform (**one colored container pod per part A gallon**) before pouring in the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.

APPLICATION

APPLICATION: E4E-100-VRM-FASTCURE

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating.

CLEANING

Clean all application equipment with the recommended cleaner. Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water

E4E-100-VRM-FASTCURE



RESTRICTIONS

- ✓ Do not apply at temperatures below 10 ° C / 50 ° F or above 30 ° C / 86 ° F
- ✓ The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85%
- ✓ Substrate temperature must be 3 ° C (5.5 ° F) above dew point measured
- ✓ Humidity content of substrate must be <4% when coating is applied
- ✓ Do not apply on porous surfaces where a transfer of humidity may occur during the application
- ✓ The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure).
- ✓ Protect the coating from all sources of moisture for a period of 48 hours
- ✓ Surface may discolor in areas exposed to regular ultraviolet light
- ✓ **E4E-100-VRM is not a replacement for waterproofing membranes**

HEALTH AND SAFETY

In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Predict suitable ventilation. Consult the material safety data sheet for further information.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to PA Epoxy. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. PA Epoxy assumes no legal responsibility for the results obtained in such cases. PA Epoxy assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.