



ECT-VRM-2000

VAPOR REDUCTION MEMBRANE

UNE MARQUE SIKA
A SIKA BRAND

DESCRIPTION

ECT-VRM-2000 vapor reduction membrane is a 100% solid, two component epoxy coating designed for controlling the moisture vapor emission rate on deteriorated or new floors. ECT-VRM-2000 meets ASTM F3010 product requirements for vapor permeance when applied at a thickness of 18 mils. The coating will control moisture vapor emission rates up to 25 lb. /24 hr. /1000 square feet. ECT-VRM-2000 provides excellent resistance to abrasion and chemical resistance. ECT-VRM-2000 meets many requirements such as durability, performance as well as aesthetics. This system has been approved by the Canadian Food Inspection Agency (CFIA). It meets LEED standards.

PRIMARY APPLICATIONS

- Aircraft hangers
- Assembly areas
- Classrooms
- Clean rooms
- Laboratories
- Areas of light manufacturing
- Mechanical rooms
- Walkways

ADVANTAGES

- Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
- Exceeds ASTM F3010 standard
- Impermeable and seamless
- Seamless coves can be shaped using ECTR-COVE
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates
- May apply several layers on itself with excellent adhesion

TECHNICAL SPECIFICATIONS AND MECHANICAL DATA

PACKAGING	3 Gallon kit	RECOMMENDED FULL CURE	7 days @ 25°C
MIX RATIO BY VOLUME	2:1	SOLIDS BY WEIGHT (%)	100%
THICKNESS	18 mils / 90-100 ft ² us gal	SHELF LIFE	12 months unopened
TACKFREE TIME @25° C	8 hours	VOC G/L	41.77
IDEAL TEMPERATURE	24 - 27°C	RECOMMENDED THINNER	Xylene
POT LIFE @ 25° C	50-60 minutes		

PROPERTIES @ 23°C (73°F) 50% R.H.

TENSILE STRENGTH	5500 psi	COMPRESSIVE STRENGTH	6800 psi
ELONGATION	6.7%	PERMEABILITY	0.3%



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BOND RESISTANCE	268 psi	HARDNESS, SHORE D	85-90
MIXED VISCOSITY @ 25° C	700-900 cps		

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.

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.

APPLICATION

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 (SCT-0001). Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.

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.



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- 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.
- **ECT-VRM-2000 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 CTM Coatings. 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. CTM Coatings assumes no legal responsibility for the results obtained in such cases. CTM Coatings 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.