



# UCTM

## URETHANE WATERPROOFING MEMBRANE

UNE MARQUE SIKA  
A SIKA BRAND

### DESCRIPTION

**UCTM** is a solvent less, two component urethane waterproofing membrane. It is designed to be used as a layer to bridge new cracks in concrete. It exhibits very good mechanical properties, such as high elongation and tear resistance. This system has been approved by the Canadian Food Inspection Agency (CFIA).

### ADVANTAGES

- Economical and easy to apply
- Highly resistant waterproof elastomer
- Solvent-free, low odor and fast curing for accelerated turnaround
- Pre-measured packaging

### TECHNICAL SPECIFICATIONS AND MECHANICAL DATA

<b>PACKAGING</b>	3 Gallon kit	<b>RECOMMENDED FULL CURE</b>	7 days
<b>MIX RATIO BY VOLUME</b>	2:1	<b>SOLIDS BY WEIGHT (%)</b>	100%
<b>THICKNESS</b>	20 mils (80 ft <sup>2</sup> /gal)	<b>SHELF LIFE</b>	12 months unopened
<b>POT LIFE @ 25° C</b>	30-45 minutes	<b>VOC G/L</b>	-
<b>IDEAL TEMPERATURE</b>	24 - 27°C	<b>RECOMMENDED THINNER</b>	Xylene

### PROPERTIES @ 23°C (73°F) 50% R.H.

<b>TENSILE STRENGTH</b>	1100 psi	<b>WATER ABSORPTION</b>	0.25%
<b>ELONGATION AT BREAK</b>	200-250%	<b>TEAR STRENGTH</b>	200 pli
<b>MIXED VISCOSITY @ 25° C</b>	4000-5000 cps	<b>HARDNESS, SHORE D</b>	70-80
<b>TABER ABRASER (CS17/1000 CYCLES/1000G)</b>	6 mg loss		

### SURFACE PREPARATION

**Old Concrete:** Concrete surface must be cleaned. BLASTAC, sand blasting, diamond grinder w/30 grit or coarse, or water blasting is highly recommended to remove surface contaminates. Any oils and fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application. In almost every application a primer is recommended prior to use of UCTM.

**New Concrete:** The concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch<sup>2</sup>) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch<sup>2</sup>). BLASTAC, sand blasting, diamond grinder w/30 grit or coarser or acid etching (followed by a thorough rinsing) is required to remove the surface laitance that appeared during the curing process. A primer should be used to reduce out-gassing and promote adhesion.



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### MIXING

Materials should be pre-conditioned to a minimum of 10°C prior to use. Thoroughly mix each component separately. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 1 minute using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.

### APPLICATION

Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.

### CLEANING

Clean all tools and materials with the cleaner/thinner for urethanes. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

### 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.

### 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.



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### **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.