REVÊTEMENTS CTM COATINGS

UNE MARQUE SIKA
A SIKA BRAND

PACT-III-80

SOLVENT BASED POLYASPARTIC POLYUREA

DESCRIPTION

PACT-III-80 is a two-component, 83% solids, VOC compliant, aliphatic polyaspartic polyurea that was developed for UV stable floor topcoats. It provides outstanding appearance, superior chemical, UV, and solvent resistance. It exhibits excellent physical properties. This system has been approved by the Canadian Food Inspection Agency (CFIA). PACT-III-80 also meets FDA and USDA requirements.

PRIMARY APPLICATIONS

- Marine protection for fiberglass, steel, concrete or wood
- UV-stable topcoat
- Aircraft hangar floors
- Low temperature equipment
- Maintenance facilities
- Offshore platforms
- Industrial shop floors
- Car washes or wash bays
- Secondary Containment
- Cooling towers
- Bridges
- Wastewater treatment applications

ADVANTAGES

- Long pot life
- Displays fast cure times with excellent adhesion
- Superior chemical and abrasion resistance
- Low odor and non yellowing and good gloss retention
- Easy to mix 1:1 ratio by volume
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
- VOC complaint in Canada and the United States

TECHNICAL SPECIFICATIONS AND MECHANICAL DATA

PACKAGING	2 Gallon kit	**RECOMMENDED FULL CURE**	72 hours @ 25°C
MIX RATIO BY VOLUME	1:1	**SOLIDS BY WEIGHT (%)**	83%
THICKNESS	Primer - UCT-PU: 8 mils / 200 ft² us gal Solid color: 8 mils / 200 ft² us gal Vinyl flakes: 8 - 12mils / 133-200 ft² us gal	**SHELF LIFE**	12 months unopened
TACKFREE TIME @25° C	4-6 hours	**VOC G/L**	82.74
IDEAL TEMPERATURE	24 - 27°C	**RECOMMENDED THINNER**	Xylene
POT LIFE @ 25° C	80-90 minutes		

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PROPERTIES @ 23°C (73°F) 50% R.H.			
TENSILE STRENGTH	6500-7500 psi	**COMPRESSIVE STRENGTH**	9500 psi
ELONGATION AT BREAK	100%	**CONCRETE ADHESION**	550 psi
WATER VAPOR TRANSMISSION	1 Perm	**HARDNESS, SHORE D**	75-78
MIXED VISCOSITY @ 25° C	125-175 cps	**WATER ABSORPTION**	0.2%
TEAR STRENGTH	350 pli	**ABRASION RESISTANCE (CS17/1000 CYCLES/1000G)**	30 mg loss

CHEMICAL RESISTANCE	
CHEMICAL	**RESULTS (25°C)**
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine Saturated H20	R
Chlorinated H20	R
Clorox (10%) H20	R
Diesel Fuel	RC
Gasoline	RC
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	RC
Hydrochloric Acid 20%	R
Hydrochloric Acid 10%	NR
Hydraulic Fluid (oil)	RC
Isopropyl Alcohol	R
Lactic Acid	RC
MEK	RC
Methanol	R
Methylene Chloride	C
Mineral Spirits	RC
Motor Oil	R
MTBE	C
Muriatic Acid 10%	R
NaCl/H20 10%	R
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R

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Potassium Hydroxide 20%	R, Dis
Propylene Carbonate	RC
Skydrol	C
Sodium Hydroxide 25%	R
Sodium Hydroxide 50%	R, Dis
Sodium Hypochlorite 10%	R
Sodium Bicarbonate	R
Stearic Acid	R
Sugar/H20	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1,1,1-Trichloroethane	C
Trisodium Phosphate	R
Vinegar/H20 5%	R
H20	R
H20 14 days at 82°C	R
Xylene	RC
R = recommended/ little to no damage **RC= recommended conditional/ some effect, swelling, discoloration**	**NR= Not recommended** **Dis= discoloring** **C= Conditional/ Cracking-wash within one hour of spillage to avoid affects**

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).
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 to avoid any loss.

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APPLICATION

Primer coat: UCT-PU

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

Finish coat: PACT-III-80

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating. Apply evenly and avoid creating excess pools of material.

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.
- 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.

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.

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