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).

1. 1st coat of (UCT-PU) 8 mils – 200ft²/gal (400ft²/kit)
2. 2nd coat of (PACT-III-80) 8 mils – 200ft²/gal (600ft²/kit)

Primary applications

- ✓ Marine protection for fiberglass, steel, concrete or wood
- ✓ UV-stable top coat
- ✓ 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 (80 min to 90 min)
- ✓ Displays fast cure times with excellent adhesion
- ✓ Superior chemical resistance
- ✓ Superior abrasion resistance
- ✓ 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

CTM Adhesives

CTM Adhesives Inc. – 8320 Grenache, Montreal, Qc H1J 1C5
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TECHNICAL DATA

Packaging litres / gal us	
7.56 / 2	37.8 / 10

Color		
Part A	Part B	Mixture
Light Yellow	Clear	Light Yellow

Recommended Thickness	
Primer : UCT-PU	8 mils / 200 ft² us gal
Topcoat on solid color: PACT III-80	8 mils / 200 ft² us gal
Topcoat on vinyl flakes: PACT III-80	8 - 12mils / 133-200 ft² us gal

Shelf Life

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 = 1 : 1

**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.*

Pot life (150g)	Solids by weight %
80 - 90 minutes 25°C	82

Density (kg/litre)		
Part A	Part B	Mixture
1.05 – 1.07	1.11 – 1.13	1.08 – 1.10

VOC (g/litre)	Recommended Thinner
79.68	xylene

Viscosity @ 25°C (cps)	Part A	Part B	Mixture
	750 - 850	80 - 100	125 - 175

Solids by weight %		
Part A	Part B	Mixture
92	65	82

Waiting time between coats
Min / 4-6 hours – max / 24 hours

Foot Traffic	12 – 24 hours
Light Traffic	48 hours
Chemical Resistance	72 hours

**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.*

PROPERTIES @ 23°C (73°F) 50% R.H.

Adhesion (concrete-primer) ASTM D4541	Water Absorption (%) ASTM D570
550 psi (substrate ruptures)	0.2
Hardness (Shore D) ASTM D2240	**Tensile Strength (psi) ASTM D638**
75 - 78	6500 - 7500
Compressive Strength ASTM D695	**Elongation at break (%) ASTM D638**
9500 psi	100
Abrasion Resistance, ASTM D4060 (CS17/1000 cycles/ 1000 g)	**Flexibility, 1/8' Mandrel, ASTM D1737**
	Pass
30 mg loss	**Tear Strength (PLI), ASTM D2240**

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Water Vapor Transmission, ASTM E96 Water procedure B Film 0.01 cm (0.004")	350
1 perm	

SURFACE PREPARATION

The surface to be coated must be well primed. Remove dust, laitance, grease, oils, dirt, impregnating agents, waxes, 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/in^2) after 28 days and the tensile strength at least 1.5 MPa (218 lbs/in^2).

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 in order to avoid any loss.

APPLICATION

APPLICATION : Primer coat of 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.

APPLICATION : Finish coat of PACT-III-80
Apply the finish coat 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.

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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

CHEMICAL RESISTANCE	
CHEMICAL	**RESULTS (25^{0}C)**
Acetic Acid 100%	C
Acetone	C
Ammonium Hydroxide 50%	RC
Benzene	C
Brine Saturated H_20	R
Chlorinated H_20	R
Clorox (10%) H_20	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
$NaCl/H_20$ 10%	R
Nitric Acid 20%	NR
Phosphoric Acid 10%	R
Phosphoric Acid 50%	NR
Potassium Hydroxide 10%	R
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/H_20	R
Sulfuric Acid 10%	R
Sulfuric Acid >50%	RC
Toluene	R
1,1,1-Trichloroethane	C
Trisodium Phosphate	R

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Vinegar/H_20 5%	**R**
H_20	**R**
H_20 14 days at 82°C	**R**
Xylene	**RC**

R = recommended/ little or no visible damage
RC= recommended conditional/ some effect, swelling or discoloration
C= Conditional/ Cracking-wash within one hour of spillage to avoid affects
NR= Not recommended
Dis= discolorative

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 Adhesives Inc. 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 Adhesives Inc. assumes no legal responsibility for the results obtained in such cases. CTM Adhesives Inc. 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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