

DESCRIPTION

PP-80 is a two-component, 83% solids, V.O.C. 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 (C.F.I.A.).

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 (90 min to 100 min)
- Displays fast cure times with excellent adhesion
- Superior chemical resistance
- Superior weather and abrasion resistance
- Non yellowing and good gloss retention
- Easy to mix 1:1 ratio by volume
- Emits virtually no odors and can be applied indoors
- Excellent adhesive properties, allowing application on other firm and hard coating, as well as a good bond to the substrate
- V.O.C. compliant in all 50 states and Canada

TECHNICAL DATA

PACKAGING	7.57 L (2 US GAL KIT) OR 37.8 L (10 US GAL KIT)
COLOR	UPON REQUEST
YIELD/ RECOMMENDED THICKNESS	PRIMER (PP-B100) - 8 MILS (200 FT ² /GAL) FINISH COAT (PP-80) - OVER SOLID COLOR : 6 MILS (266 FT ² /GAL) - OVER VINYL CHIPS : 10 MILS (160 FT ² /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
MIX RATIO, BY WEIGHT (GRAMS)	A:B = 100:110
POT LIFE (454 G)	90-100 MINUTES @ 25°C

PROPERTIES @ 23°C (73 °F) AND 50% R.H.

SOLIDS CONTENT, BY VOLUME		PART A	PART B	MIX
	CLEAR	93%	78%	85%
SOLIDS CONTENT, BY WEIGHT		PART A	PART B	MIX
	CLEAR	92%	75%	83%
DENSITY (KG/L)		PART A	PART B	MIX
		1.06	1.15	1.11
THINNER RECOMMENDED		XYLENE		
DRYING TIMES				
	TACK-FREE	4 - 6 HOURS		
	RECOAT TIME	6 - 10 HOURS		
	FOOT TRAFFIC	12 - 24 HOURS		
	HEAVY EQUIPMENT TRAFFIC	> 48 HOURS		
	FULL CURE	24 - 48 HOURS		
ABRASION RESISTANCE, ASTM D4060 TABER ABRASER CS-17 WHEEL / 1000G (2.2 LBS.) / 1000 CYCLES		30 MG LOSS		
ADHESION, ASTM D4541		CONCRETE-PRIMER : > 550 PSI (SUBSTRATE RUPTURES)		
WATER ABSORPTION, ASTM D570		0.2 %		
WATER VAPOUR TRANSMISSION, ASTM E96		WATER PROCEDURE B FILM 0.01CM (0.004") : 1 PERM		
HARDNESS (SHORE D), ASTM D2240		75-78		
FLEXIBILITY, 1/8" MANDREL, ASTM D1737		PASS		

PROPERTIES @ 23°C (73°F) AND 50% H.R. (CONTINUED)

FALLING SAND ABRASION RESISTANCE (L SAND/ 1 DRY MIL), ASTM D968	45		
VISCOSITY @ 25°C	PART A 350-450 CPS	PART B 75-100 CPS	A/B MIX 125-225 CPS
GLOSS, ASTM D523	95+		
FIRE RATING CAN/ULC S102	ESTIMATED ON SIMILAR COATING		
FLAME SPREAD	5		
SMOKE DEVELOPED	94		
TENSILE STRENGTH, ASTM D638	6500-7500 PSI		
COMPRESSIVE STRENGTH (PSI MPA), ASTM D695	9500		
*W/QUARTZ	13700		
*W/CHIPS	12200		
ELONGATION AT BREAK, ASTM D638	100%		
TEAR STRENGTH (PLI), ASTM D2240	350		
VOC	0 G/L		

* 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. *

** Please note that the indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity. **

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 (PP-B100) IS RECOMMENDED PRIOR TO USE OF PP-80.

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./INCH²) AFTER 28 DAYS AND TRACTION RESISTANCE MUST BE AT LEAST 1,5 MPA (218 LBS./INCH²). 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 (PP-B100) SHOULD BE USED TO REDUCE OUT-GASSING AND PROMOTE ADHESION.

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 1A: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 application equipment with a specified cleaner. Once the material hardens it can only be removed mechanically. If the product splatters, wash thoroughly with hot soapy water.

OVERLAPS

Subsequent overlaps must be applied when primer is still wet or tacky. If primer has dried, reprime. Porous substrates may require multiple priming.

SUGGESTIONS

Sprinkle the primed area lightly with aggregate to provide better footing.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 5°C / 30°C (42°F / 86°F).
- Maximum relative humidity during application and curing: 85 %.
- Substrate temperature must be 3 °C (5.5°F) above the 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 application.
- Protect from humidity, condensation and contact with water during the 24 hour initial curing period.

CHEMICAL RESISTANCE

CHEMICAL	RESULTS (25°C)	CHEMICAL	RESULTS (25°C)
ACETIC ACID 100%	C	GASOLINE/5% MTBE	RC
ACETONE	C	GASOLINE/5% METHANOL	RC
AMMONIUM HYDROXIDE 50%	RC	HYDROCHLORIC ACID 20%	R
BENZENE	C	HYDROCHLORIC ACID 10%	NR
BRINE SATURATED H ₂ O	R	HYDRAULIC FLUID (OIL)	RC
H ₂ O CHLORINATED	R	ISOPROPYL ALCOHOL	R
CLOROX (10%) H ₂ O	R	LACTIC ACID	RC
DIESEL FUEL	RC	MEK	RC
GASOLINE	RC	METHANOL	R

CHEMICAL RESISTANCE (CONTINUED)

CHEMICAL	RESULTS (25°C)	CHEMICAL	RESULTS (25°C)
METHYLENE CHLORIDE	C	SODIUM HYDROXIDE 50%	R, DIS
MINERAL SPIRITS	RC	SODIUM HYPOCHLORITE 10%	R
MOTOR OIL	R	SODIUM BICARBONATE	R
MTBE	C	STEARIC ACID	R
MURIATIC ACID 10%	R	SUGAR/H ₂ O	R
NACL/H ₂ O 10%	R	SULFURIC ACID 10%	R
NITRIC ACID 20%	NR	SULFURIC ACID >50%	RC
PHOSPHORIC ACID 10%	R	TOLUENE	R
PHOSPHORIC ACID 50%	NR	1,1,1-TRICHLOROETHANE	C
POTASSIUM HYDROXIDE 10%	R	TRISODIUM PHOSPHATE	R
POTASSIUM HYDROXIDE 20%	R, DIS	VINEGAR/H ₂ O 5%	R
PROPYLENE CARBONATE	RC	H ₂ O	R
SKYDROL	C	H ₂ O 14 DAYS AT 82°C	R
SODIUM HYDROXIDE 25%	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. For more information, consult the material safety data sheet.

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

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