



PETRA[™]THANE CRU 80

advanced coating systems



HIGH PERFORMANCE ALIPHATIC POLYURETHANE FINISH COATING

GENERAL PRODUCT DESCRIPTION

PetraThane CRU 80 (Chemical Resistant Urethane) is a two component, high performance aliphatic polyurethane finish floor coating. PetraThane CRU 80 provides a high gloss finish and is the product of choice in many applications. It is designed to be applied at 3-5 mils (DFT). For durability, stain resistance, and a finish coat which beautifies concrete for years, PetraThane CRU 80 is simply unmatched. It is also formulated to be used with virtually all other Petra base systems meeting the highest demands.

Advantages:

- 0-VOC (80% solids)
- Low Viscosity - Rapid cure
- High Gloss Finish
- Withstands heavy traffic
- Chemical Resistant
- UV Stability
- Mar Resistant
- Color Stability
- Superior Abrasion Resistance

PRODUCT DATA

Volumetric Ratio: 1 to 1
 Solids: 80% by volume
 Coverage: 400 S/F per gal. @4 mils. over smooth surface
 Application Temperature: 50-90°F and 5° above dew point
 Thinning: Not needed.
 Pot Life: 10-15 minutes
 Cure Time: 1-4- hrs. (walking)
 12 hrs. (traffic) @ 75°F
 Critical recoat time: 24 hours
 Shelf life: 1 year from date of manufacture
 USDA Food and Beverage: Meets requirements for incidental contact

PACKAGING

PetraThane CRU 80 is available in two different kit sizes:

	<u>Part A</u>	<u>Part B</u>
2 Gallon Kit	1 gallon	1 gallon
10 Gallon Kit	5 gallons	5 gallons

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
Tear Resistance DleC	270 psi	ASTM D 1004
Tensile Strength	3,980 psi	ASTM D 412
Ultimate Elongation	60%	ASTM D 412
Gloss (60 deg)	90%	ASTM D 523
Coefficient of Friction	0.6 minimum	ASTM D 2047
Flammability	Self-extinguishing	ASTM D 635
Hardness, Shore D	84	ASTM D 2240
Flash Point	>200°F	ASTM D 93
Porosity on unglazed finish		NACE Stand TM-01-74

INDUSTRIAL APPLICATIONS

The uniqueness and versatility of its chemistry allows PetraThane CRU 80 to be used in a wide variety of applications:

- Manufacturing
- Commercial buildings and walkways
- Restrooms
- Pharmaceutical
- Food Preparation
- Power Plants
- Electronic Plants
- Warehouses
- Aisle ways
- Clean rooms
- Automotive showrooms and service bays
- Schools

COLORS

PetraThane CRU 80 standard colors are: Clear, black, white, light gray, medium gray, dark gray, light beige, dark beige, sand beige, and tile red. Other colors are available at an additional charge.

PETRA THANE CRU 80

CONCRETE PREPARATION

Before the coating is applied, the concrete must be:

- Clean – Contaminants removed
- Profiled – Surface etched
- Sound – Cracks repaired

Mechanical methods are preferred for preparing concrete prior to coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should approximate 60-80 grit sandpaper after preparation.

PATCHING

Voids, cracks, and imperfections will be seen in finished coating if the concrete is not patched correctly. Patch concrete with Petra Patch. After the patching material has cured, diamond grind patch the concrete. If a non-Petra patching material is used, make sure that it is a two-part epoxy patch. Always test unproven products by applying patch material first, then Petra coating system next. Check to see if bonding is firm.

APPLICATION PROCESS

PetraThane CRU 80 is generally applied once as the final coat. For estimation purposes, use coverage rates of 300 S/F per gallon for light textured finishes and 400 S/F per gallon over a smooth surface. Refer to other Petra data sheets for application of base systems that the PetraThane CRU 80 will be applied over.

1. It is always best to apply in descending temperatures especially for exterior applications. Optimum ambient temperature should be between 50-90°F and 5° above the dew point during application.
2. Mix one gallon of resin using above mixing instructions.
3. Apply PetraThane CRU 80 with a 3/8" non-shedding phenolic (plastic) core roller cover. Dip a 9" or 18" roller on a pole into the mixed material. Roll the PetraThane CRU 80 forward and backwards. Do not over roll because the material will tack up.
4. PetraThane CRU 80 cures quickly so you need to move fast and keep a wet edge.

PRODUCT LIMITATION

Ground level concrete slabs emit moisture vapor. The allowable moisture emissions for concrete is 3 lbs. 1000 S/F over a twenty-four hour period. If moisture is above this level, then blistering and delamination of coating may occur. A calcium chloride test should be performed to determine concrete moisture level. If moisture levels exceed the 3 lb. limit, a concrete moisture vapor control system should be used first before applying coating system. Please contact Petra technical department for approved systems.

Coating systems are susceptible to cracking if the concrete moves or separates below the coating. Hence, joint and crack treatment should be reviewed prior to coating application. As a general rule, control joints (saw cuts) and random cracks should be saw cut or chased first then filled with Petra Patch or similar approved hard epoxy product. Construction joints (two slabs which meet and hence move) should be treated. After the coating has been applied and cured, saw cut through the coating over construction joints.

CLEANUP

PetraThane CRU 80 while in an unreacted state may be cleaned up with acetone.

WARRANTY

Petra Polymers products are warranted for one year after date of application. Please refer to the Petra Polymer's Limited Material Warranty for additional clarification.

SAFETY

Consult PetraThane CRU 80 material safety data sheet. Avoid PetraThane CRU 80 contact with eyes and skin. Some individuals may be allergic to epoxy. Protective gloves and clothing are recommended.



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