



PETRA THANE WB



advanced coating systems

HIGH PERFORMANCE TWO COMPONENT POLYURETHANE

GENERAL PRODUCT DESCRIPTION

PetraThane WB is a two-component, Low-VOC premium aliphatic water-based polyurethane. This latest generation polyurethane system provides excellent UV resistance with high gloss retention and no solvent odor. This system boasts easy installation, long pot life, as well as great abrasion and chemical resistance and is suitable for both indoor and outdoor uses. PetraThane WB is also available in a matte finish, Advantages:

- No Solvent Smell
- Non-Yellowing
- V.O.C. 49 g/L
- Long Pot Life / Easy Application
- Chemical Resistant
- Seamless flooring system
- Available in Gloss and Matte Finish

APPLICATIONS

- Retail Floors
- Warehouses
- Garage Floors
- Pool Decks
- Hospitals & Schools
- Show Room Floors
- Aisle Ways & Halls
- Wall Coating
- Equipment Pads

PRODUCT DATA

Volumetric Ratio: 2 to 1
 Solids: 54%
 Application Temperature: 65-90°F and 5°F above dew point
 Thinning: Not required
 Pot Life: 30 minutes
 Working time on floor: 10-15 minutes
 Cure Time: 10 hours (walking)
 48 hours (traffic)
 Critical recoat time: 18 hours
 Shelf life: 12 months
 USDA Food and Beverage: Meets requirements

PHYSICAL PROPERTIES

PROPERTY	VALUE	REFERENCE
V.O.C.	< 50 g/l	ASTM D 2369-81
Gloss 60'	90	ASTM D 823
Flexibility	Pass	ASTM D 522
Bond to Concrete	350 psi	ASTM D 4541
Taber Abrasion	Loss/1000 Cycles = 45 mg	ASTM D 4060 CS 17 Wheels
Volume Solids	54 %	ASTM D 2697
Pencil Hardness	3H	ASTM D 3363

CHEMICAL RESISTANCE

Diesel Fuel	NE
Coolant	NE
Brake Fluid	SD
Transmission Fluid	SD
Power Steering Fluid	SD
Ammonia 5%	NE
Mineral Spirits	NE
Nitric Acid 5%	NE
Sodium Hydroxide 5%	NE
Nitric Acid 30%	NE
Sulfuric Acid 5%	NE

Note: The above guide is based on 24 hour exposure of the listed chemical at 72 degrees F (22 degrees C)
 Key: NE = No Effect, SD = Slight Dulling, Above chart serves as a guideline only.
 Testing samples can be furnished upon request

PETRA[™]THANE WB

COVERAGE

When used as a topcoat, estimate coverage at 150-350 square feet per gallon. Always apply in thin coats (400-500 SF/gal.) as with most waterbased products thick coats can result in trapped water in the film and thick areas may foam and will remain white. Do not allow puddling. Brush out any puddled material that pools in cracks, divots or low spots. For thicker films, simply apply additional thin coats.

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.

MIXING

The mix ratio of PetraThane WB is 2 to 1. That is, two parts of A (resin), to one part B (isocyanate). Mix the following with a drill and jiffy mixer. Use low speed, 300 rpm or lower to avoid air entrapment.

1. Premix Part A before pouring off to insure uniformity. Pour two quarts of part A into a suitable mixing bucket.
2. Add one quart of part B and mix for another 30-45 seconds until uniform.

COLOR SELECTION

PetraThane WB is available in clear and the following colors: Black, white, light gray, medium gray, dark gray, light beige, dark beige, sand beige, safety red, tile red, pastel blue, light brown, and safety yellow. Other colors are available at an additional charge.

APPLICATION PROCESS

Apply PetraThane WB at approximately 250-500 square feet per gallon. Pour out the mixed material in a ribbon and spread with a window squeegee evenly over the entire surface. Using a 3/8" non-shedding roller, quickly roll out the floor. Immediately after, cross roll the coating in the opposite direction. Additional coats will increase thickness and durability.

PACKAGING

PetraThane WB is available in the following kit sizes:

	<u>Part A</u>	<u>Part B</u>
3 Gallon Kit	2gal.	1 gal.

CLEANUP

PetraThane WB while in a liquid state may be cleaned up with water and degreaser. Otherwise a strong solvent may be required while PetraThane WB is setting up.

WARRANTY

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

SAFETY

Consult PetraThane WB material safety data sheet. Avoid contact of PetraThane WB with skin. Some individuals may be more sensitive to polyurethane products. Using protective eyewear, clothing and gloves is recommended.



Information expressed in this data sheet is correct to the best of our knowledge. The technical data sheet does not constitute a warranty, expressed or implied as to the performance of this product. The use and application of this product is beyond our control. Warranty and liability therefore is limited to the replacement only for defective materials. Technical information is subjected to change without cause.

CoreKote HB 2of 2