



PETRA FLEX PRIMER

advanced coating systems



TWO COMPONENT DEEP PENETRATING PRIMER

GENERAL PRODUCT DESCRIPTION

PetraFlex Primer is a two component, deep penetrating polyurethane primer which provides an excellent bond coat between the substrate and PetraFlex 900 high performance coating system. Its urethane chemistry provides excellent bonding characteristics and its low viscosity allows for deep penetration into a porous substrate. Because of the porous nature of concrete and wood, PetraPrime reduces problems associated with out gassing with many coating systems. PetraFlex Primer is generally applied at 300-400 S/F per gallon. Its design features provide for the highest industrial demands. Advantages:

- Low odor
- VOC Compliant, 100% SOLIDS
- Chemical resistant
- Can be applied over ten day old concrete

PRODUCT DATA

Volumetric Ratio:	1 to 1
Solids:	100%
V.O.C.	0 g/l
Coverage:	300-400 S/F per gal.
Application Temperature:	65-90°F and 5° above the dew point
Thinning:	Not required
Pot Life:	15-20 minutes
Working time on floor:	20-30 minutes
Cure Time:	4-8 hours (walking) 24 hours (traffic)
Critical recoat time:	24 hours
Shelf life:	12 months
USDA Food and Beverage:	Meets requirements

COLORS

PetraFlex Primer is only available unpigmented.

PACKAGING

PetraFlex Primer is available in two different kit sizes:

	<u>Part A</u>	<u>Part B</u>
2 Gallon Kit	1 gal.	1 gal.
10 Gallon Kit	5 gal.	5 gal.

CONCRETE PREPARATION

Before the coating is applied, the concrete must be:

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

Mechanical preparation is the preferred method of preparing concrete for coating application. Shot-blasting, diamond grinding, scarifying, and scabbling are all acceptable methods. The concrete profile should be approximately 40-60 grit sandpaper after preparation.

MIXING

The ratio of PetraFlex Primer is 1 to 1. That is, one part of A (resin), to one part of B (hardener). Generally, two to four mixed gallons is ideal for application. Mix the following with a drill and jiffiler mixer.

1. Pour out 1 gallon of part A into an empty mixing gallon bucket.
2. Add one gallon of part B and mix for 60-90 seconds.
3. Immediately apply to the floor. PetraFlex Primer in mass has a short pot life of approximately 15-20 minutes. Once poured out on the floor, 20-30 minutes of working time can generally be expected.

APPLICATION PROCESS

PetraFlex Primer is applied in a one coat application. For estimation purposes, use 300 to 400 S/F as a coverage rate. (Note: For concrete that has been excessively prepared, a much lower coverage rate can be expected. Testing may be required to determine coverage.)

1. Always apply in descending temperatures. Concrete is porous and traps air. In ascending temperatures (generally mornings), the air expands and can cause out gassing in the coating. It is safer to apply coatings in the late afternoon, especially for exterior applications. Optimum ambient temperature should be between 65-90°F during application.
2. Mix two to four gallons of resin using above mixing instructions.
3. Apply approximately 300 to 400 S/F per gallon by immediately pouring out on surface in a ribbon, while walking and pouring at the same time until bucket is empty.
4. Using a window squeegee on a pole, pull PetraFlex Primer over substrate. Pull resin as thin as possible while still wetting out surface and uniformly covering surface. This allows trapped air to escape more easily.
5. Make sure to brush out any thick or puddled material that may form in divots or cracks. Thick material will not cure properly.
6. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.
7. Lastly, backroll in a perpendicular direction from step 6.

PETRAFLEX PRIMER

PRODUCT LIMITATIONS

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.

CLEANUP

PetraFlex Prime, while in an unreacted state, may be cleaned up with water and degreaser. Isopropyl alcohol or acetone may be needed once the resin begins hardening.

WARRANTY

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

SAFETY

Consult PetraFlex Prime material safety data sheet. Avoid PetraFlex Prime contact with skin. Some individuals may be allergic to epoxy resin. Protective gloves and clothing are recommended. This product contains flammable solvents. All electrical equipments should be grounded in accordance to the National Guard Code.



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.