

# PETRACHIP SEALER advanced coating systems



# CLEAR TWO COMPONENT CYCLOALIPHATIC SEAL

#### **GENERAL PRODUCT DESCRIPTION**

PetraChip Sealer is a high build, decorative, clear finish for PetraChip Systems. It is a two component, high performance, cycloaliphatic epoxy, providing a durable, high gloss finish for Petra hip systems which result in a beautiful look which lasts for years. It is designed to be used in conjunction with Petra Chip Basecoat (see data sheet). Its epoxy chemistry provides excellent bonding characteristics. It is generally applied at a rate of 100 S/F per gallon (16 mils). Its design features provide for the highest demands. Advantages:

- High gloss
- Beautiful flooring systems
- Seamless
- Integral cove base available
- Texture increases anti-slip properties
- VOC Compliant 100% Solids
- Withstands medium to heavy traffic
- Chemical resistant
- No amine blush
- Can be applied over ten day old concrete

# PRODUCT DATA

Volumetric Ratio: 2 to 1 Solids: 100%

Coverage: 100 S/F per gal. at 16 mils 135 S/F per gal. at 12 mils

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: 10 hours (walking) 24 hours (traffic)

Critical recoat time: 24 hours Shelf life: 12 months

USDA Food and Beverage: Meets requirements

## **PHYSICAL PROPERTIES**

VALUE	REFERENCE
8,880 psi	ASTM C 579
8,100 psi	ASTM D 790
5,700 psi	ASTM D 638
350 psi concrete fails at this point	ASTM D 4541
0.6 minimum	ASTM D 2047
37 mgs	ASTM D 4060 CS 17 Wheels
Self-extinguishing	ASTM D 635
84	ASTM D 2240
>200°F	ASTM D 93
	8,880 psi 8,100 psi 5,700 psi 350 psi concrete fails at this point 0.6 minimum 37 mgs Self-extinguishing 84

## INDUSTRIAL APPLICATIONS

The uniqueness and universality of its chemistry allows Petra Chip to be used in the following applications:

- Manufacturing Aerospace Food Preparation Power Plants Electronic Plants Warehouses
- Aisle wavs Clean rooms Automotive
- Laboratories
- Retail Kitchens
- Restrooms Dairies
- Pharmaceutical
- Laundry Floors Loading Docks
- Schools

#### **COLORS**

Petra Chip Sealer is clear.

# PetraChip Sealer

#### 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.

#### MIXING

The ratio of PetraChip Sealer is 2 to 1. That is, two parts of A - resin, to one part of B - hardener. Generally, three mixed gallons is ideal for application. Mix the following with a drill and jiffler mixer.

- 1. Part A does not require pre-mixing. If using the 15 gallon kit, pour out 2 gallons into an empty 5 gallon bucket which then becomes the mixing bucket. (The three gallon kit allows the Part A bucket to be used as the complete mixing bucket, since the Part A comes in a three and a half gallon bucket.)
- 2. Add one gallon of part B and mix for 60-90 seconds.
- 3. Immediately apply to the floor. PetraChip Sealer 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

PetraChip Sealer can be applied in a single coat or in two coats for a more even texture. For estimation, use 135 S/F (12 mils) to 100 S/F (16 mils) as a coverage rate. The following is for a 16 mil system:

- 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 three gallons of resin using above mixing instructions.
- Apply approximately 200 S/F per gallon for a two coat application or 100 S/F for a single coat. Apply by immediately pouring out on surface in a ribbon, while walking and pouring at the same time until the bucket is empty.
- 4. Using a window squeegee on a pole, pull PetraChip Sealer over PetraChip Basecoat.
- 5. Using a 3/8" non-shedding phenolic (plastic) core paint roller, roll coating forwards and backwards.

#### APPLICATION PROCESS (CONTINUED)

- 6. Lastly, backroll in the opposite direction from step 5.
- 7. Apply second coat by repeating steps 1-6 the next day if applying two coats.
- 8. An optional urethane finish coat may be applied last.

#### 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.

#### **PACKAGING**

PetraChip Sealer is available in two different kit sizes:

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

# **CLEANUP**

PetraChip Sealer, 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. Lastly, a stronger solvent may be required if the resin is nearly set up.

#### 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 additional clarification.

## **SAFETY**

Consult PetraChip Sealer material safety data sheet. Avoid PetraChip Sealer contact with skin. Some individuals may be allergic to epoxy.



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.

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