

### Epoxy Floor Coating Vapor Sealer Architectural / Light Industrial Coating - Premium

#### Description

Floortec Vaporseal is a two component High Solids Liquid Epoxy coating. It is designed to migrate deep into the voids and pores of cementitious surfaces such as concrete and masonry. Because of its unique 100% solid liquid epoxy polymer system it has the advantage of low viscosity providing excellent flow and diffusion into the concrete. This product aids in reducing the hydrostatic pressure caused by moisture leaching from the soil. This averts efflorescence forming at the surface of the concrete caused by salt complex migrating up through the cement by capillary action. These salt formations can disrupt and or destroy the bonding of the coating to the concrete causing substantial delamination between the coating and the concrete surface.

#### Recommended Uses

Floortec Vaporseal is used over new or preexisting concrete to help penetrate deep into the surface of the concrete to provide a stronger concrete aggregate in addition to a vapor barrier. This product can also be used on previously painted concrete surfaces as long as the previous coating is properly removed to the exposed concrete. It will penetrate deeply into the concrete where most of the sealer will be below the surface of the concrete, but will also provide an interface for the topcoat coating to strongly adhere.

#### Colors

Semi-Opaque White

#### Packaging

1 1/2 Gallon Kit:

2: 1 Mix; (Part A + Part B = 2:1)

#### Concrete Conditions

Before starting your project always consider the condition of your concrete surface. The concrete should be clean, and dry, free from oil, grease, dirt, curing agents, loose peeling paint or other contaminants that will prevent proper adhesion. Newly poured concrete should be allowed to cure/dry for at least 30 days before application of Floortec Vaporseal.

**Moisture Permeability-** If moisture content of ground under the concrete slab is high and it is causing high permeability of water vapor through the slab, a simple test can be run by taping a piece of plastic to the surface of the concrete and leaving it overnight. Next day check to see if there is any moisture trapped between the concrete and the plastic. If you see any moisture on the plastic or darkening of the concrete area it is recommended to first apply the Floortec Vaporseal water barrier sealer to the concrete surface before applying the Floortec topcoat. If these procedures are not followed it can result in the product delaminating, blistering, or failure of the coating system.

#### Surface Preparation

Proper preparation of the concrete surfaces is essential for the performance of the Floortec coating. Shot-blasting or diamond grinding is the preferred method for preparing the concrete. The surface of the concrete should be clean, porous and a uniform surface throughout; profile similar to that of a 50-80 grit sand paper. A rough porous surface of the concrete will promote the penetration of the liquid epoxy coating and guarantee adhesion for a longer lasting finish.

#### Substrate Temperature

Substrate temperature during application should be between 50°F and 95°F.

#### Mixing

After the concrete surface has been properly prepared and ready for coating, mix 2-parts of Part A with 1-part of Part B, by volume until they are thoroughly mixed which should take approximately 4 to 5 minutes. This can be achieved by hand mixing or low speed drill mixing. **DO NOT INDUCE FOAM.** Be certain the composition is completely mixed before starting the application. There is no induction time needed. The product can be thinned to a maximum of 5% by volume with acetone if desired.

#### Pot Life

90 minutes at normal temperature. Pot life can be effected by temperature. Higher temperature will reduce pot life.

#### Application

Brush, roll, trowel or squeegee at ambient conditions with substrate surface temperature above 55°F and a relative humidity below 80%.

#### Dry Time

Recoat time: 12 hours

#### Coverage

Coverage will vary depending on the condition of the concrete where the surface profile of i.e., pore size and depth of the concrete will vary. The Vapor sealer is designed to migrate into the concrete consequently most of the coating will be within the bulk of the concrete and just enough at the surface to bind the following functional topcoat layer.

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### Thinning

If desired this coating can be reduced up to 5% by volume with acetone to aid in reducing the viscosity of the system providing better penetration into the concrete surface. This will improve binding the concrete aggregate at the surface to help prevent minor surface cracking.

### Composition

Extenders	4.68%
<b>TOTAL PIGMENT</b>	<b>4.68%</b>
Proprietary Resin	92.32%
Additives	3.00%
<b>TOTAL VEHICLE</b>	<b>95.32%</b>

Weights & Measurements +/-3.0%

Solids by Volume:	75.75%
Solids by Weight:	76.72%
VOC:	<38.00 g/l
Weight Per Gal:	9.32 lbs.
Viscosity:	78 - 80 KU

### Testing

- Direct & Indirect Impact ASTM D6905 & D2794 on Metal Panels. (Direct Height 40"/Elongation 60% & Indirect Height 40"/Elongation 60%) (Direct Impact 15- 10" Lbs and Indirect Impact 17-10" Lbs)
- Chemical Resistance ASTM D1308 Run With A Variety of Chemicals, Oil, Grease & Fuel (No Defects or Color Loss)
- Water Spot Whitening Early Water Resistance CRGI TM 67 and ISO2812 (10 No Failure)
- Efflorescence CRGI TM 89 (Pass)
- Tensile Strength ASTM D2370 (1125.8 MPa)
- Flexural Strength ASTM D2370 (Pass)
- Pull of Adhesion Tester D7234 (5.15 mpa)
- Tape Adhesion 1-Day D3359 (5B)
- Permeability D1653 Wet Cup Method For High Humidity Area and Dry Cup For Normal Humidity (Permeability 3.6)

### Conformance

**SCAQMD** - complies with Rule 1113, Architectural Coatings.



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