



Epoxy Floor Coating Gloss Finish

Architectural / Light Industrial Coating - Premium

Description

Floortec is a premium epoxy, gloss interior, 100% solids, two component, floor coating designed to provide ease of application and durability for concrete protection. Because of its unique epoxy polymer system it has the advantages of high build, low odor, near zero-voc, and low viscosity - providing excellent flow and self-leveling features. Additionally this product has superior chemical resistance and hot tire pick-up performance. This product is available in a full palette of colors to fit into any decorating requirements and can be mixed with decorative chips, color micas and other effect pigments to create a unique decorative floor coating.

Recommended Uses

Floortec products are formulated for interior architectural or light Industrial applications. Recommended for protecting concrete floors in warehouses, manufacturing plants, residential and industrial garages, mechanical rooms, commercial kitchens, flooring in schools and health care.

Colors

White and custom colors tinted to a full palette of colors to order.

Bases: White (Pastel), Deep, Accent

Packaging

1 ½ Gallon Kit

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

Finish

Gloss @60° = 95 +/- 5

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.

Before application test concrete to make sure there is no efflorescence or high levels of alkalinity.

PH Check- Check the pH of the new concrete substrate. The ideal pH range should be 5-9 to ensure good adhesion of the product. If the surface is high in pH it is important to acid wash the surface to reduce alkalinity. If the concrete has a high pH this means it is alkaline and high level of salt deposits are presents in concrete.

Salts with permeation of water vapor will migrate to the surface of the concrete through osmotic pressure and create efflorescent which will look like dry crystalline opaque residue. Efflorescent prevents or diminish the bonding of the coating to the concrete.

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.

Continued Next Page

DISCLAIMER: To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance and offered in good faith. All technical information is subject to change without prior notice. This product is guaranteed to give satisfactory performance if applied and used in accordance with the label instructions. Any liability shall be limited to a refund of the purchase price, or replacement of this product. This warranty does not include labor or cost of labor for the application of any coating. All express and all implied warranties are hereby disclaimed and excluded including all implied warranties of fitness for a particular use and merchantability. Final determination of the suitability of product or intended use is the sole responsibility of the user. Additional information may be obtained from your local sales representative.

03.2022





Epoxy Floor Coating Gloss Finish
Architectural / Light Industrial Coating - Premium

360 Floortec Epoxy Floor Coating Gloss Finish

Continued Page 2

Pot Life

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

Primer

If the concrete flooring is without any prior coating, after proper preparation, it is recommended to use the Floortec Vaporseal water vapor barrier sealer before applying the Floortec topcoat, especially if moisture permeability rate is high. The vapor barrier sealer should be applied in a normal uniform film and allowed to penetrate into the concrete surface. Allow the vapor barrier to penetrate deep into the concrete surface to strengthen the top layer of the concrete and to provide a moisture free clean layer for the topcoat to bond. There is no further prep work required after the vapor barrier sealer is applied. After the surface is dry to the touch or within 24 hours you may apply the Floortec topcoat.

Application

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

Drying Time

Touch: 12 hours

Recoat: 12 hours (If the re-coat time has exceeded the 12 hour period, then light sanding is recommended, followed by a wipe clean with acetone before the following application.

Light foot traffic permitted after: 24 hours

Light vehicle traffic: 72 hours

Heavy traffic: 7 days

Coverage

Coverage will vary depending on the condition of the surface and the desired thickness. At a 10 mil wet film thickness (WFT), expect approximately 250 square feet per 1 1/2 Gallon Kit, depending on the surface porosity.

Mil Thickness

Wet = 10.0 Dry = 9.8

Thinning

This product can be thinned with acetone up to 5% based on volume.

Composition

Titanium Dioxide	16.87%
Extenders	9.13%
TOTAL PIGMENT	25.90%

Proprietary Resins	66.0%
Additives	8.0%
TOTAL VEHICLE	74.0%

Weights & Measurements +/-3.0%

Solids by Volume:	79.0%
Solids by Weight:	82.89%
VOC:	<17.8 g/l
Weight Per Gal:	10.93 lbs.
Viscosity:	98 KU

Testing

- Direct & Indirect Impact Testing ASTM D6905 & D2794 Run on Metal Panels. (Direct Height 25" / Elongation 60% & Indirect Height 25" / Elongation 60%) (Direct Impact 10-10" Lbs. & Indirect Impact 6-10" Lb.s)
- Chemical Resistance ASTM D1308 Run With A Variety of Chemicals, Oil, Grease & Fuel (No Defects or Color Loss)
- Abrasion Resistance ASTM D4060 (Taber Abrasion 0.018, Scrape Adhesion 9,800 Grams, Tape Adhesion 5B No Failure)
- Water Spot Whitening Early Water Resistance CRGI TM 67 and ISO 2812 (10 No Failure)
- Efflorescence CRGI TM 89 (Pass)
- Hot Tire Pickup and Discoloration CRGI TM69 (No Defects)
- Tensile Strength ASTM D2370 (1125.8 MPa)
- Flexural Strength ASTM D2370 (Pass)
- Surface Hardness Both With The Durometer Hardness Test D2240 & The Bucholz Hardness Indention Tester (Sward Hardness 18, Buchholz Hardness 2mm, Pencil Hardness H)
- Pull of Adhesion Tester D7234 (5.15 mpa)
- Sward Hardness D2134 (18)
- Falling Sand ASTM D968 (250L+)
- Tape Adhesion 1-Day D3359 (5B)
- Permeability D1653 Wet Cup Method For High Humidity Area & Dry Cup For Normal Humidity (Permeability 3.4)

Conformance

SCAQMD - complies with Rule 1113, Architectural Coatings

DISCLAIMER: To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance and offered in good faith. All technical information is subject to change without prior notice. This product is guaranteed to give satisfactory performance if applied and used in accordance with the label instructions. Any liability shall be limited to a refund of the purchase price, or replacement of this product. This warranty does not include labor or cost of labor for the application of any coating. All express and all implied warranties are hereby disclaimed and excluded including all implied warranties of fitness for a particular use and merchantability. Final determination of the suitability of product or intended use is the sole responsibility of the user. Additional information may be obtained from your local sales representative.

