



101620032

CoverShield E900 FS

Fast set abrasion resistant epoxy color coat

Product Description

CoverShield E900 FS is high build colorfast abrasion resistant epoxy coating with low VOC. The product is highly decorative and is suitable for use in a wide range of applications on concrete, metal and wood floors and walls.

Advantages

- High abrasion resistance
- Excellent light reflectivity
- Very low VOC
- Resistant to wide range of chemicals
- Available in wide range of colors
- Easy to clean and maintain

Main Uses

- Showrooms
- Airplane hangers
- Hospitals
- Food preparation areas
- Pharmaceutical plants
- Warehouses
- Garage floors
- Lobbies and hallways
- Stairwells

Test Data

Property	Typical Results
Compressive strength ASTM D695	9,100 psi
Flexural strength ASTM D790	5400 psi
Tensile strength ASTM D638	4,800 psi
Bond to concrete ASTM C882	>300 psi
Abrasion resistance ASTM D4060 CS-17 wheel/500 cycles	Loss 32 mg loss with 1000 gm load
Impact resistance MIL D3134	Passes

Application Properties

Application temperature	60-95°F (15-35°C)
Pot life	30 minutes at 77°F (25°C)
Tack free	3 hour at 77°F (25°C)
Foot traffic	8 hours at 77°F (25°C)
Heavy traffic	48 hours at 77°F (25°C)
Recoat window	8 to 12 hours at 77°F (25°C)

Chemical Resistant Test Data

Reagent	Rating
Xylene	8 hour term splash and spill
10% HCL	8 hour term splash and spill
50% Sodium Hydroxide	72 hour immersion
5% Acetic Acid	2 hour term splash and spill
10% Sulphuric Acid	8 hour term splash and spill
Skydrol	2 hour term splash and spill

Note: Detailed chemical resistance information is available from tec@covertecproducts.com.

Colors

Standard: light grey, dark grey, beige, tile red, lt blue, brown, tan, green and off-white,
Finish: Gloss

Other colors available on request subject to minimum order.

Theoretical Coverage

CoverShield E900 FS: 150-220ft² per gallon per coat

Actual coverage will depend on wastage and surface profile.

Packaging

3 gallon kits (2 gal Part A resin 1 gal Part B hardener)
15 gallon kits (10 gal Part A resin 5 gal Part B hardener)

Shelf Life

12 months when stored at below 86°F (30°C) under shade in a dry environment.

Surface Preparation

CoverTec Surface Preparation Guide must be referred to prior to starting work. The information below is a summary intended for guidance only.

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any surface defects should be patched with CoverBond PF160.

Priming

None required unless substrate is very porous, then prime substrate with CoverShield Primer WB. Ensure that no ponding of the primer occurs and that it is not applied too thick. If the primer is left to dry for more than 24 hours the surface will have to be re-primed.

Mixing

Add the hardener 'Part B' in to the base 'Part A' and mix using a slow speed drill (350 rpm) and Mixer Paddle for 1 to 2 minutes until both components have fully dispersed and are uniform in color.

Be sure to rotate the mixer throughout the pail.

Before using the product pour the mixed product into a clean container to make sure all the pigment has been dispersed and has not been left in the bottom of the mixing can. Mix only full kiits.

Application

Apply at a rate of between 150-220ft²/gal using notched squeegee and immediately back roll with a 3/8" nap roller. If desired recoat after 8 to 24 hours at 77°F. Clean equipment using solvent.

Slip Resistant Finish

A slip resistant finish can be achieved by broadcasting dry sand onto the surface of the first coat while still wet. When the first coat has dried a second coat should then be applied at a rate of 150ft² per gallon. The grain size (Fine or Coarse) and broadcast rate will depend on the surface texture required but will generally be in the range of 10 to 20lbs/100ft² (0.5 to 1kg/m²).

Limitations

Will change color in when exposed to direct sunlight.

Will not accommodate movement cracks.

Do not apply below 60°F (15°C)

Substrate temperature must be 5°F (3°C) above the dew point.

Avoid excessive application.

Avoid skin contact.

Do not dispose off into the water system.

Health and Safety

Before using this product consult the Material Safety Data Sheet (MSDS). The MSDS can be obtained via www.covertecproducts.com

Limited Warranty

This product is warranted to be of good quality and that it complies with the properties shown in the current datasheet. CoverTec will replace or, at our election, refund the purchase price of the product if proven defective when used according to the instructions in the current datasheet. Any suspected defect must be reported to CoverTec in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. CoverTec Products LLC, **makes no warranty as to the merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied and explicitly excludes liability for consequential damages, down time, or delay.**