



# CoverShield P650 FS

## UV resistant fast set polyaspartic coating

### Product Description

CoverShield P650 FS is a fast set two component 85% solids aliphatic polyaspartic coating. It has excellent non yellowing UV resistance and outstanding impact and abrasion resistance. It cures quickly for rapid return to service applications and for same day application of multiple coats. CoverShield P650 FS can be applied by roller, brush or airless spray.

### Features

- Fast turn around
- Color and UV stable
- Hygienic seamless surface
- Excellent impact resistance
- Abrasion resistant topcoat
- Good chemical resistance

### Main Uses

- Topcoat for UV stability
- Clear binder for color flakes and quartz
- Floors, internal and external
- Parking decks and driveways
- Garage floors and workshops
- Balconies and walkways

### Color

Clear Gloss. Color packs available for standard colors.

### Coverage

180-260ft<sup>2</sup>/per gallon depending on substrate and desired surface texture.

### Packaging

2.0 and 10 gallon (7.6L and 38L) kits.

### Shelf Life

12 months when stored unopened below 77°F (25°C) under shade in a dry environment.

### Dry Time

Tack free/foot traffic: 4-6 hrs. Recoat 1-4 hrs. Heavy foot traffic 24 hrs. Vehicular Traffic 48 hrs.

### Application Properties

Application temperature (Ambient)	50 to 90°F (10 to 32°C)
Service temperature (Ambient)	-20 to 150°F (-29 to 66°C)
Pot life	15 minutes at 77°F (21°C)
Tack free time	2 hours at 77° F
Minimum thickness	3mils (0.08mm) per coat
Maximum thickness	8 mils (0.2mm) per coat

### Laboratory Test Data

Property	Typical Results	Test Method
Tensile Strength	3900 psi (27MPa)	ASTM D695
Hardness (Shore D)	80	ASTM D2240
Adhesion to primed concrete	350psi (2.4MPa)	ASTM D4541
Abrasion Resistance 1000 g load , 500 cycles	21 mg loss	ASTM D4060

The above results were obtained on 7 day old samples cured at 90°F (32°C).

### Surface Preparation

#### Concrete

The surface being coated must be fully cured 28 days, structurally sound (200psi or greater according to ASTM D4541), clean (ASTM D4258), and dry (less than 5%, ASTM D4263). It must have low moisture-vapor transmission (less than 3lbs/24 hr/1,000ft<sup>2</sup>, RMA Test Method). Profile surface according to ICRI Guide 03732 to a minimum of CSP 3.

#### Steel

Steel surfaces must be cleaned before blasting (SSPC-SP1). Remove any sharp edges and other surface imperfections. Dry abrasive blast surface according to SSPC-SP-10/NACE No. 2 (0.003" profile). Remove any visible soluble salt contamination (less than 3Dg/cm<sup>2</sup>, NACE 6G186, CHLOR\*RID).

## CoverShield P650 FS

### Terrazzo

Substrates should be stripped with a wax stripper and clean rinsed. Allow the floor to dry for 8 hours. Circulate air during this drying process using a fan air blower.

**Note: The floor must be cleaned and rinsed thoroughly to ensure that it is pH neutral. Test with pH paper or pH pencil or Litmus paper**

**Use a microfiber mop to pick up all dust and dirt**

### Priming

Prime with CoverShield Primer GP. Allow primer to set up according to instructions (See the product data sheet for Primer WD for more information).

### Mixing

**Mix Ratio: 1A:1 B. Combine Part B and Part A in a mixing container. Thoroughly mix both parts with a slow-speed drill and mixing blade for a minimum of 2 minutes.** One mixed the product has approximately 15 minute Pot Life. Don't mix more material than can be applied in 15 minutes.

### Application

CoverShield P650SF has been specifically developed for use as a standalone system or as a UV stable topcoat for epoxies polyurethanes or polyurea. When used over flakes or color quartz apply using a squeegee. Spread the material tight and then back roll with a 3/8" (10mm) nap mohair roller.

When used as a standalone system, apply by brush, 3/8" (10mm) nap mohair roller, or HVLP spray. Two 6mil (0.15mm) coats are normally required. Allow first coat to dry for a minimum of 1 hour minutes and a maximum of 4 hours before applying the finish coat.

### Recoating

Recoat P650 FS within the first 4 hours of the first coat application. After 4 hours, mechanically abrade the entire base-coat surface and clean with CT-12 Thinner. Allow to dry and apply P650 FS within 30 minutes.

### Thinning

Use CT-12 thinner for viscosity reduction and to obtain a smoother finish. For best results thin P650 FS 10% by volume for roll application, up to 15% by volume for spray application. Do not thin beyond your state's compliant limit.

**Note:** thinning will increase dry-to-recoat time, dilute active materials and reduces DFT; if thinning, allow for additional dry time between coats.

### Polyurethane or Epoxy Coatings

Overcoat with P650 FS within the first 24 hours of application of the polyurethane or epoxy base coat. After 24 hours, mechanically abrade the entire surface of the coating and clean with CT-12 Thinner. Allow substrate to dry and apply P650 FS within 1 hour.

### Limitations

Do not apply at thicknesses above 8 mils (0.3mm) per coat

Do not apply in rain or wet conditions, at temperatures below 30°F (-1°C), above 98°F (37°C) or within 5°F (3°C) of the dew point.

Avoid skin contact.

Do not discard into the water system.

Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.

### Datasheet Validity

Please check on [www.covertecproducts.com](http://www.covertecproducts.com) to ensure you have the latest version of the datasheet.

### Health and Safety

**Please refer to the Safety Data Sheet (SDS) prior to the use of this product. The SDS can be obtained via our website [www.covertecproducts.com](http://www.covertecproducts.com).**

### Limited Warranty

CoverTec Products LLC warrants that this product complies with the properties shown on its current datasheet. In the unlikely event that the product supplied is proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Any suspected defect must be reported to CoverTec in writing within five working days of being detected. 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.** CoverTec Products LLC shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.