

**PRODUCT DESCRIPTION**

Powerflex 560 is a high-performance aliphatic polyurethane – polyurea thick elastomeric coating that was specially designed in order to provide a superior UV-resistant performance by regular methods of application.

**PRODUCT FEATURES**

- Superior UV-resistance
- Excellent color and gloss retention
- High film build in one coat
- Can be used for full coating or repair kit
- Applied by brush, roller squeegee and airless or conventional spray
- Exceptional hardness and toughness
- Excellent hydrophobic and water proofing performance
- Cold weather cure for temperatures down to -10°C (15°F).
- Excellent impact resistance
- Good abrasion resistance

**RECOMMENDED USES**

- Protection of steel and concrete surfaces against weathering
- External protection of pipes and tanks
- Water proofing of industrial and civilian buildings
- Hydro insulation of diverse concrete and wooden facilities
- Industrial and commercial flooring with excellent indoor and outdoor color stability

**TECHNICAL DATA**

<b>Colors:</b>	Any color according to RAL color chart	<b>Drying times (20°C) based on 20 mils (0.5 mm) DFT</b>	
<b>Gloss:</b>	Glossy	<b>Tack free :</b>	1 1/2 - 3 hours
<b>Solids by volume:</b>	65 - 70 %	<b>To recoat:</b>	5 hours
<b>Solids by Weight:</b>	75 - 80 %	<b>Hard</b>	6 - 7 hours
<b>Theoretical Coverage of 1 mil:</b>	1055 ft <sup>2</sup> / U.S gallon	<b>Pot Life</b>	1 hour
<b>D.F.T. at 25 microns:</b>	98 m <sup>2</sup> / 3.78 liters	<b>Reduction solvent (if necessary):</b>	X-60
<b>Recommended WFT:</b>	15-30 mils <small>depends on the application</small>	<b>Dilution:</b>	10% by volume
<b>Dry film thickness:</b>	10-20 mils <small>depends on the application</small>	<b>(if necessary)</b>	
<b>Kit Viscosity:</b>	80-100 ku	<b>Catalyst:</b>	56C
<b>Kit Specific gravity:</b>	1.2-1.45 kg/l	<b>Mixing Ratio:</b>	2:1 by volume
<b>Flash Point:</b>	24°C (75.2°F)	<b>Shelf life:</b>	24 months @ 25° C unopened
<b>V.O.C.:</b>	250 grams/liter 2.08 lbs / US gal	<b>Packaging:</b>	
		<b>Base:</b>	7.5L (2 US gallon) in 11.36L
		<b>Catalyst:</b>	3.78L (1 US gallon)
		<small>*Data may vary for different colors</small>	<small>Keep in cool dry area</small>

**APPLICATION GUIDE**
**SURFACE PREPARATION**

**SURFACE PREPARATION:** Remove all detrimental foreign matter such as oil, grease, dirt, soil, salts, drawing and cutting compounds and other contaminants from steel surfaces.

General use: If applied by squeegees, the dilution is not required, for application with a spray equipment, could be diluted with 10% 300.

Use one of the following recommendations:

1. Prepare surface in accordance with SSPC –SP – 1 (solvent cleaning)
  2. Prepare surface in accordance with SSPC –SP – 5 (white metal blast cleaning) for immersion
  3. Prepare surface in accordance with SSPC –SP – 6 (commercial blast cleaning) for better chemical resistance
- Apply Powerflex Moisture-Cure primer (guard) or Epoxy primer Powerbarrier Epoxy primer (448 [448102] or 100 Series) with 4 mils DFT (100 microns) before application of Polyflex 560. (Refer to correspondent Technical Data Sheet for product information)

### MIXING AND THINNING

- **MIXING AND THINNING:** First, power mix the base portion Powerflex 560 until it becomes homogenous. Secondly, add catalyst 560C slowly with contained agitation until both base and catalyst parts are well mixed together. Product is then ready for immediate use.
- Dilution when applied by:
  - Air spray and airless spray: 10% dilution (by volume) with solvent X-60 if necessary
  - Brush and roller or squeegee: No dilution is necessary

### APPLICATION PROCESS

Substrate temperature	Dust free	Hard	RECOATING TIME**		
			Minimum	Maximum	Normal
20°C (68°F)	1,5 – 3 hours	6 – 7 hours	5 hours	30 days	12 hours
4°C (39°F)	3 – 5 hours	23 -26 hours	24 hours	30 days	24 hours
-10°C (14°F)	18 – 20 hours	40 - 48 hours	48 hours	30 days	48 hours

\*\* After 30 days light sanding is required

Application by spray, brush, roller (synthetic roller with ¼-1/2 inch nap) or squeegee. Smooth applied surface with roller 5 minutes after application by squeegee.

#### Recommended coating systems:

Epoxy primer Powerbarrier 100/448 (448102) 4 mils D.F.T. (100 microns) Powermax Ferro Pur or Epoxy primer Powerbarrier 100/448 (448102) 4 mils D.F.T. (100 microns) Powerflex 560 10-15 mils D.F.T. Powerflex 530 15-20 mils D.F.T. / Powerflex 560 10-15 mils D.F.T.

### PHYSICAL PROPERTIES

#### Properties under tension:

(ASTM D 412-C) Ultimate elongation = 60 - 70%

#### Resistance to tearing:

(ASTM D 624-C) Tensile = 7,5 -8,5 MPa

#### Indication of hardness:

(ASTM D 2240) 85 - 90 Shore A

#### Impact:

(ASTM D 2794) Direct: 120 inch-pounds Reverse: 90 inchpounds

#### Taber abrasion resistance:

(ASTM D 4060) 1000 cycles, 1000g load, CS-17 wheel: 130 - 140 mg loss

#### Adhesion:

(ASTM D 4541) Guard, Powermax Ferro Pur or Epoxy 850 psi (5.5 MPa) minimum

### SPECIAL INSTRUCTIONS

- Thinner can be added depending on local VOC and air quality regulations
- Surface temperature must be at 3°C (5°F) above the dew point during application

See the material safety data sheet and product label for complete safety and precaution requirements.

#### DISCLAIMER:

"The following is made in lieu of all warranties, expressed or implied: Manufacturer's obligation shall be to replace such quantity of the product proven to be defective. The manufacturer shall not be liable for any injury, loss or damage, direct or incidental or consequential, arising out of the use of or the inability to use the product. Before using, the user shall determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith. All values shown are approximations. Values indicated are for guide purposes only, as actual values can change due to application conditions, application methods, environmental conditions etc. The information contained herein is subject to change without notice. Consult your representative for a current data sheet. The foregoing may not be altered except by an agreement signed by the officers of the manufacturer."