

**PRODUCT DESCRIPTION**

Powerflex 530 is a high performance polyurethane-polyurea thick elastomeric coating that was specifically designed in order to provide high waterproofing performance by regular methods of application.

**PRODUCT FEATURES**

- High hydro insulation and water proofing
- Good elasticity and flexibility
- High film build in one coat
- Can be used for full coating, repair kit, bonding layer
- Applied by brush, roller or airless spray
- Cold weather cures temperatures down to 15°F (- 10°C)
- Excellent impact resistance
- Can be used as a crack filler when mixed with sand

**TYPICAL USES**

- Water proofing of concrete and wooden surfaces and industrial civilian buildings
- Self-levelling & crack filling floor application

**TECHNICAL DATA**

<b>Colors:</b>	Any color	<b>Drying times 68°F (20°C) based on 20 mils (0.5 mm) DFT</b>	
<b>Gloss:</b>	Semi-gloss	<b>Tack free :</b>	1 1/2 - 3 hours
<b>Solids by volume:</b>	72 - 76 %	<b>To recoat:</b>	5 hours
<b>Solids by Weight:</b>	80 - 84 %	<b>Hard</b>	6 - 7 hours
<b>Theoretical Coverage of 1 mil:</b>	1187 ft <sup>2</sup> / U.S gallon	<b>Pot Life</b>	1 hour
<b>D.F.T. at 25 microns:</b>	110 m <sup>2</sup> / 3.78 liters	<b>Reduction solvent (if necessary):</b>	DE-300
<b>Recommended WFT:</b>	25-35 mils depends on the application	<b>Dilution:</b>	10% by volume
<b>Dry film thickness:</b>	18-27 mils depends on the application	<b>(if necessary)</b>	
<b>Kit Viscosity:</b>	80 - 100ku	<b>Catalyst:</b>	530 C
<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>	2 US gallon (7.57L)
		<b>Catalyst:</b>	1 US gallon (3.78L)

\*Data may vary for different colors  
Keep in cool dry area

**APPLICATION GUIDE**
**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 squeegee, the dilution is not required, for application with spray equipment, could be diluted with 10% DE-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 Powermax Guard with 4-6 mils DFT before application of Powerflex 530.

**MIXING AND THINNING**

First, power mix the base portion Powerflex 530 until it becomes homogenous. Secondly, add catalyst 530C slowly with continued agitation until both base & catalyst parts are well mixed together. Then product is ready for immediate use

Dilution when applied by:

- Airless spray: by special equipment 10% dilution by volume with xylene if necessary
- Brush, roller or squeegee: Dilution is not required

**APPLICATION PROCESS**

Substrate temperature			RECOATING TIME**		
			Minimum	Maximum	Normal
68°F (20°C)	Dust free	Hard	5 hours	30 days	12 hours
39°F (4°C)	1.5 – 3 hours	6 – 7 hours	24 hours	30 days	24 hours
14°F (-10°C)	3 – 5 hours	23 -26 hours	48 hours	30 days	48 hours
	18 – 20 hours	40 - 48 hours			

\*\* After 30 days light sanding is required

CONVENTIONAL SPRAY		AIRLESS SPRAY	
Manual Spray gun:	DeVilbiss JGA-510, MBC-510 or equivalent	Pump Ratio:	30:1
Fluid Nozzle:	E Fluid Tip	Pressure:	1500 – 3000 Psi
Air Cap:	704 or 765	Hose:	3/8 inch, 50 ft length maximum
Atomizing Air:	45 – 75 lbs	Tip Size:	0.015 – 0.021
Fluid Pressure:	15 – 20 lbs	Filter Size:	50 Mesh (300 um)
Hose:	½ inch, 50 ft length maximum		

Application by spray, brush, roller (synthetic roller with ¼-½ inch nap) or squeegee. Smooth applied surface with roller 5 minutes after application by squeegee.

**Recommended coating systems:**

Powermax Guard 4-6 mils D.F.T.

Powerflex 530 18-27 mils D.F.T.

Expected service life 25 – 30 years

**PHYSICAL PROPERTIES**

**Properties under tension:**

(ASTM D 412-C) Ultimate elongation = 240% - 250%

**Resistance to tearing:**

(ASTM D 624-C) Tensile = 13.1 MPa Directly to metal (SSPC-6)  
7.0 MPa minimum

**Indication of hardness:**

(ASTM D 2240) 80 Shore A

**Impact:**

(ASTM D 2794) Direct: 160 inch-pounds Reverse: 160 inch-pounds

**Taber abrasion resistance:**

(ASTM D 4060)

1000 cycles, 1000g load, CS-17 wheel: 130 - 140 mg loss

**Adhesion:**

(ASTM D 4541)

Powermax Guard 100 = 850 psi (5.5 MPa) minimum

**SPECIAL INSTRUCTIONS & PRODUCT LIMITATIONS**

- Thinner can be added depending on local voc and air quality regulations
- Shelf life: 24 months @ 25°C (77°F) unopened
- Surface temperature must be at 5°F (3°C) 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."