

**PRODUCT DESCRIPTION**

Powerflex 570 is a high performance elastomeric polyurethane coating that was specifically designed in order to provide durability to floors by manual methods of application.

**PRODUCT FEATURES**

- Low odor
- Excellent hardening at low temperature
- Good elasticity and flexibility
- High film build in one coat
- Can be used as full coating or as a concrete block filler
- Applied by brush, roller or squeegee
- Great coverage
- Provide a seamless high build durable coating
- Cures at temperatures down to 15°F (-10°C)
- Excellent impact resistance

**TYPICAL USES**

- Showrooms
- Auditoriums
- Warehouse
- Locker rooms
- Amusement parks and zoos
- Manufacturing plant

**TECHNICAL DATA**

<b>Colors:</b>	Any color	<b>Drying times (20°C) based on 20 mils</b>	
<b>(0,5 mm) DFT Gloss:</b>	High Gloss (80°+)	<b>Tack free :</b>	1 1/2 - 2 hours
<b>Solids by volume:</b>	92 - 96 %	<b>To recoat:</b>	5 - 6 hours
<b>Solids by Weight:</b>	94 - 98 %	<b>Hard</b>	8 - 12 hours
<b>Theoretical Coverage of 1 mil:</b>	1508 ft <sup>2</sup> / U.S gallon	<b>Pot Life</b>	50 - 60 minutes
<b>D.F.T. at 25 microns:</b>	139 m <sup>2</sup> / 3.78 liters	<b>Mixing Ratio:</b>	1:1 by volume
<b>Recommended WFT:</b>	21-32 mils <small>depends on the application</small>	<b>Shelf life:</b>	24 months @ 25° C unopened
<b>Dry film thickness:</b>	20-30 mils <small>depends on the application</small>	<b>Packaging:</b>	
<b>Kit Viscosity:</b>	90-110 ku	<b>Base:</b>	3.78L (1 US gallon)
<b>Kit Specific gravity:</b>	1.1-1.3 kg/l	<b>Catalyst:</b>	3.78L (1 US gallon)
<b>Flash Point:</b>	≥38°C (≥100°F)		
<b>V.O.C.:</b>	50 grams/liter 0.42 lbs / US gal.		

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

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

The substrate must be dry, oil free, grease-free, and dust-free. Stone particles or other debris must be removed. Wax substrates or residue or very contaminated substrates must be cleaned with a sand-blasting machine, a grinding machine or a high pressure washing machine. Apply Lahalt's Moisture cure primer (Powercoat Guard or Powerflex MF Pur) or Epoxy Powercoat 100S before application of Powerflex 570. (refer to correspondent TDS for those products).

**MIXING AND THINNING**

First, power mix the base portion Powerflex 570 until it becomes homogenous. Secondly, add catalyst 570C slowly with continued agitation until both base & catalyst parts are well mixed together. Then product is ready for immediate use.

Concrete block filler mixture should be used following the ratio by volume:

Powerflex 570 Base : 1 part

Powerflex 570 Catalyst : 1 part

Filler (Nicon 604) : 3 parts

**APPLICATION PROCESS**

The coating is applied using a trowel, a doctor blade or a squeegee. Over rolling with a spiked roller to avoid bubbles forming in the coating and promotes further leveling.

Substrate temperature	Dust free	Hard
77°F (25°C)	1 1/2 hours	8 hours

Vapor transmission test should be performed before applying this product

**Recommended coating systems:**

Powercoat Guard, Powerflex MF Pur or Epoxy Powercoat 100S : 4 mils D.F.T. (100 microns) Powerflex 570 : 20-30 mils D.F.T.

**Expected service life:** 10 years

**PHYSICAL PROPERTIES**
**Properties under tension:**

(ASTM D 412-C) Ultimate elongation = 195% /Tensile Strength = 9.25 MPa (1343 psi)

**Resistance to tearing:**

(ASTM D 624-C) Tear strength = 19.50 N/mm (111.2 PLI)

**Indication of hardness:**

(ASTM D 2240) Shore A = 80 / Shore D = 35

**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: 97 mg loss

1000 cycles, 1000g load, H-18 wheel: 316 mg loss

**Adhesion:**

(ASTM D 4541)

Powercoat Guard, Powerflex MF Pur or Epoxy Powercoat 100S = 7.5 MPa (1100 psi)

**PHYSICAL PROPERTIES**

Do not store below 0°C (32°F) and above 35°C (95°F).

The area coated must be free of all traffic for a period of about 24 hours to dry.

Full curing to the core of the product should be complete after seven days following application.

Do not apply above 80% relative humidity.

Surface temperature must be at 3°C (5°F) above the dew point during application

Aromatic Polyurethane – color and gloss will be affected by UV exposure

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."