

### DESCRIPTION

**Polyflex 204** is a high-performance **manual application repair kit** designed for interior or exterior use and can be used as a full application Polyurea membrane. It is flexible, self-leveling and high in solids. Due to its aliphatic nature this product is suitable for interior and exterior applications.

### PRODUCT FEATURES

- Can repair and/or replace existing membrane
- Can be used to repair cracks
- Very high in solids
- Minimal stresses in the application process
- Easy to pour, applicable by brush, self-leveling
- Compatible with Polyurea and polyurethane
- Provides good waterproofing
- Excellent flexibility
- Superior abrasion and impact resistance
- Exceptional weather resistance characteristics

### RECOMMENDED USES

- Excellent for garage and parking decks
- Repair and fill cracks
- Full surface application
- Repair kit for Polyurea linings
- Waterproofing concrete substrates

### TECHNICAL DATA

<b>Color:</b>	Available in many colors	<b>Flash Point: (catalyst)</b>	> 39°C (102.2°F)
<b>Type of Cure:</b>	2 components	<b>V.O.C.:</b>	96 g/L
<b>Binder:</b>	Polyurea	<b><u>Drying times:</u></b>	
<b>Solids by volume:</b>	91 % * combined with catalyst	<b>Gel Time:</b>	45 minutes
<b>Solids by Weight:</b>	90 % * combined with catalyst	<b>Dust Free:</b>	4 hours
<b>Theoretical Coverage of 1 mil:</b>	1461 ft <sup>2</sup> / U.S. gallon	<b>To recoat:</b>	24 hours
<b>D.F.T. at 25 microns:</b>	135 m <sup>2</sup> / 3.78 litres	<b>Hard: * may vary with climate conditions</b>	24 hours*
<b>Recommended D.F.T.:</b>	10 - 40 mils	<b>Catalyst:</b>	204C
	250 - 1000 microns	<b>Ratio:</b>	1:1 V/V
<b>Resin viscosity:</b>	3,500 CPS @ 25°C (77°F)	<b>Pot life:</b>	25 minutes
<b>Isocyanate viscosity:</b>	2,000 CPS @ 25°C (77°F)	<b>Packaging:</b>	3.78 litres (1 gallon U.S.) 18.93 litres (5 gallons U.S)



### APPLICATION GUIDE

#### SURFACE PREPARATION:

##### FOR POLYUREA AND/OR POLYURETHANE MEMBRANES\*:

Roughen the surface of Polyflex with 40 grit (or less) abrasive; remove dust with a dust rag or vacuum. Make sure the surface is clean, dry and dust free before the application. Clean the surface with POLYFLEX 101645 Surface Activator, let it evaporate and apply the repair kit.

**FOR CONCRETE\*:** Make sure the concrete surface is dry and clean. The grout and loose particles on concrete surface need to be cleaned before the application. If a hardener was used in the concrete, it must be roughened with a Blastrac<sup>®</sup> machine or equivalent impact tool. Applications can be direct to surface or primed.

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**FOR STEEL\*:** First remove all grease, oil, salt contaminants and dirt in accordance with SSPC SP-1 solvent cleaning procedure. High-pressure water wash using salt solubilizing agents can be used to remove the remaining salt. SSPC SP6 or SSPC SP10 may be used depending on the application.

**CLEANING INSTRUCTIONS:** Cleaning agent: Toluene, Xylene, MEK. To reduce the risk of fire, use glycol ether acetate or any enviro-friendly chlorinated solvent.

### MIXING AND THINNING

Minimum 2 minutes of mixing is recommended and 5 minutes of mixing is the general practice. Pot life is 25 minutes.

Substrate * temperature	Dust * Free dry	Hard *	RECOATING TIME **		
			Minimum *	Maximum *	Normal *
23°C (73°F)	4 hours	24 hours	2 hours	24 hours	2 – 4 hours

\* Product should not be applied at sub-zero temperatures; values may change with climate conditions.

\* Product should be applied at around 3 °C (5 °F) above the dew point.

\*\* Use acetone for better intercoat adhesion results when and if necessary. A test patched is advised to verify the adhesion performance.

### PHYSICAL PROPERTIES

#### Properties under tension:

(ASTM D 412-C)

Ultimate Elongation = 327 %

(ASTM D 412-C)

Tensile Strength = 5.2 N/mm<sup>2</sup> (754 PSI)

#### Resistance to tearing:

(ASTM D 624-C)

Tear strength = 21.6 N/mm (123.1 PLI)

#### Indication of hardness:

(ASTM D 2240)

85 Shore A

#### 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." © Polyval Coatings Inc. Polyflex and Polyval are registered trademarks of Polyval Coatings Inc. All Rights Reserved.

Keep in cool and dry area. See the material safety data sheet and product label for complete safety and precaution requirements.

Chemical resistance information is currently being updated according to ASTM standards. Please contact your local representative for an update.