

PRODUCT DESCRIPTION

Polyflex 204 is a high-performance manual repair kit or for 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. Generally, applications are applied by brush, squeegee or spatula.

PRODUCT FEATURES

- Can repair and/or replace the 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
- Good abrasion and impact resistance
- Good weather resistance characteristics

TYPICAL USES

- Excellent for garage and parking decks
- Repairs and fills cracks
- Full surface application
- Can be used as a repair kit on Polyurea linings
- Waterproofing concrete substrates

TECHNICAL DATA

Color:	Available in many colors	Flash Point: (catalyst)	> 39°C (102.2°F)
Type of Cure:	2 components	V.O.C.:	96 g/L
Binder:	Polyurea	Drying times:	
Solids by volume:	91 % * combined with catalyst	Gel Time:	45 minutes
Solids by Weight:	90 % * combined with catalyst	Dust Free:	4 hours
Theoretical Coverage of 1 mil:	1461 ft ² / US gallon	To recoat:	24 hours
D.F.T. at 25 microns:	135 m ² / 3.78 litres	Hard: * may vary with climate conditions	24 hours*
Recommended D.F.T.	10 - 40 mils	Catalyst:	204C
	250 - 1000 microns	Ratio:	1:1 V/V
Resin viscosity:	3,500 CPS @ 25°C (77°F)	Pot life:	25 minutes
Isocyanate viscosity:	13,000 CPS @ 25°C (77°F)	Packaging:	3.78 litres (1 gallon US) 18.93 litres (5 gallons US)

Keep in cool and dry area
*revised on September 15,
2009

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 acetone let the acetone 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 machine or equal impact tools. Direct or primed applications can be done. (Blastrac is a registered trademark of the Wheelabrator Corporation).

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 environmentally 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.

		RECOATING TIME **			
Substrate * temperature	Dust * Free dry	Hard *	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/mm² (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

Dielectric strength:

(ASTM D-149-97) Not available

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."

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