# Polyflex 55 polyarea

# **Product Description**

Wasser Polyflex 55 is a high-performance polyurethane-polyurea highly crosslinking elastomeric coating specially designed to provide a superior chemical and abrasion resistant performance by regular methods of application.

# **Product Features**

- Excellent chemical resistance
- High film build in one coat
- Can be used for full coating or as a repair kit
- Applied by brush, roller, squeegee and spray by conventional or plural-component spraying equipment such Graco XM Series
- Exceptional hardness and toughness
- Excellent hydrophobic & water proofing performance
- Cold weather cure for temperatures down to 15°F (- 10°C )
- Excellent wear/abrasion resistance

\*Data may vary for different colors

**DRY TIMES** 

**Tack Free** 

Re-coat

Hard Dry

# Ready Reference Information

Color:	Dark colors	<b>Recommended dry film thickness/coat:</b> 13 - 28 mils depend on the application
Gloss:	High Gloss	<b>Recommended wet film thickness:</b> 17 - 35 mils depend on the application
*Solids by volume:	76 - 80 %	<b>Theoretical Coverage:</b> At 1 mil: 1237 ft²/gal (25µm: 30.4m²/l)
		* <b>Kit Viscosity:</b> 80 - 100 ku
*Solids by weight:	82 - 86 %	*Kit Specific gravity: 1.2 - 1.45 kg/l
		Ratio: 1:1 by volume, Catalyst WP55A.0
V.O.C.:	2.08lbs/gal <b>(</b> 250 g/l)	Pot Life: 15 - 20 minutes undiluted 30 - 40 minutes with 20% dilution

### **Recommended coating systems:**

#### **Steel Substrate**

1st coat (optional)/MC-Miozinc 100: 3-5 mils DFT (76-127μm DFT) or MC-Universal 100: 4-5.5 mils DFT (100-139μm DFT) 2nd coat / Polyflex 55: 6.5-14 mils DFT (165-356μm DFT) 3rd coat / Polyflex 55: 6.5-14 mils DFT (165-356μm DFT)

#### **Concrete Substrate**

1st coat / MC-Universal 100: 4-5.5 mils DFT (100-139µm DFT) or Polyflex 111: 8-10 mils DFT (203-254µm DFT) 2nd coat / Polyflex 55: 6.5-14 mils DFT (165-356µm DFT) 3rd coat / Polyflex 55: 6.5-14 mils DFT (165-356µm DFT)

				**RE-COA	TING TIME
	Substrate Temp	Dust Free	Hard Dry	Minimum	Maximum
	84 - 95°F (29 - 35°C)	1 hour	5-6 hours	1 hour	4 hours
	61 - 83°F (16 - 28°C)	2 -2.5 hours	10-12 hours	2 hours	6 hours
15.A	41 - 60°F (5 -15°C)	18-20 hours	40-48 hours	4 hours	8 hours

ूं \*\*Abrade slightly after recoat has lapsed, or Polyflex solvent surface activator WP50.0 should be used.

68°F/20°C (20 mils (0,5 mm) DFT

2 hours

2 hours

10 hours



Area of Use

#### Substrates

- Steel
- Concrete

#### **Possible Uses**

- Protection on steel and concrete surfaces from occasional splashing of chemicals
- Interior lining of tanks and pipes
- Chemical resistant flooring
- Protection of mining equipment from abrasion wear and chemicals





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# **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 spray equipment, could be diluted with 20% W41.0.

#### 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
- Prepare surface in accordance with SSPC –SP 6 (commercial blast cleaning) for better chemical resistance

Apply Wasser Moisture cure primer (MC-Universal 100) before application of Polyflex 54

(Refer to correspondent TDS for that products)

# **Application Information**

Application by spray, brush, roller (synthetic roller with  $\frac{1}{4}-\frac{1}{2}$  inch nap) or squeegee. Smooth applied surface with roller 5 minutes after application by squeegee.

# **Mixing and Thinning**

First, power mix the base portion Polyflex 55 until it becomes homogeneous. Secondly, add catalyst 55C slowly with continued agitation until the both base & catalyst parts are well mixed together. Then product is ready for immediate use.

Dilution when applied by:

Air spray and airless spray: 20% dilution (by volume) with solvent W41.0 if necessary

Brush, roller, squeegee or Graco XM Series: Dilution is not required

#### Airless Spray:

Pump Ratio:	30:1
Pressure:	1500-3000 psi
Hose:	3⁄8″, 50' Max
Tip Size:	0.15-0.021
Filter Size:	50 mesh (300 µm)

Conventional Spray: (DeVilbis MBC, JGA or equivalent)

Fluid Nozzle:
Air Cap:
Atomizing Air:
Fluid Pressure:
Hose:

E Fluid Tip 704 or 765 45 - 75 lbs. 15 - 20 lbs. ½" ID; 50' Max

# **Performance Testing Data**

#### **Properties under tension:**

(ASTM D 412-C)	Ultimate Elongation = 25%	Tensile Strength = 5177 PSI (35.7 N/nm²)		
Adhesion by pull-off strength:				
(ASTM D 4541)	MC-Universal 1	00 = 800 PSI (5.5 N/mm <sup>2</sup> )		
Hardness: (ASTM D 2240)		65 Shore D		
Taber abrasion resistance:				
(ASTM D-4060) 100	0 cycles, 1000g load	38 mg (CS-17 wheel)		
(ASTM D-4060) 100	0 cycles, 1000g load	550 mg (H-18 wheel)		
Impact resistance:				

(ASTM D 2794) Direct @ 77°F (25°C): 52 in-lb (5.9 joules)

#### **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
- When applied as a repairing coating, the repairing damaged area should be removed completely with the careful sanding, dusting off and solvent cleaning of underneath primer or substrate (depends where the delaminating and peeling off have been examined) to provide the highest intercoat adhesion value

# **Ordering Information**

Product Numbers:	WP55A.0 (catalyst) WP55B.0 (resin)
Package Size:	Base 1 gal. (3.78l) Catalyst 1 gal. (3.78l)
Shelf Life:	1 year, @ 77°F (25°C) unopened
Flash Point:	75.2°F (24°C)

# Safety Precautions

#### Precaution:

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

"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." Contact your Wasser Representative for current Product Data Sheets.

www.wassercoatings.com

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