

Product Description

Polyflex 401 is a high performance, aromatic polyurea membrane. It provides excellent abrasion and shock absorbing characteristics and can be used in a great variety of different climatic conditions while continuing to offer excellent durability. Provides excellent protection especially when service conditions require flexibility and protection in cold temperatures and below freezing.

Area of Use

Substrates

Over properly prepared:

- Ferrous Metal
- Aluminum/Non-Ferrous Metal
- Galvanized Metal
- Concrete
- Concrete Block
- Geotextile

Possible Uses

- Steel or Concrete Tanks
- Refineries
- Food Processing Facilities
- Water and Wastewater Treatment Facilities
- Chemical Processing Facilities
- Pulp and Paper Mills
- Concrete Structures
- Dry Holds/Wet Holds
- Pipes
- Containment and Secondary Containment Floors
- Material Handling Equipment

Ready Reference Information

Color: Grey and Black

Recommended dry film thickness/coat: 30-100 mils
750-2500 microns

Type of cure: 2 components
Binder: Polyurethane and amine

Theoretical Coverage:

At 1 mil: 1604 ft²/gal
At 25 microns: 149 m²/liter

***Solids by volume:** 100%
***Solids by weight:** 100%

Catalyst: 401C
Ratio: 1:1

V.O.C.: None
Flash Point: 300.2° F

Pot Life: n/a
Shelf Life: ????

Drying Times and Temperatures

Gel Time: 30 seconds

Tack free: 20 minutes

To recoat: 12 hours maximum

(scuff sanding required before recoating with Polyflex 401Polar Serve outside of this time frame)

Hard dry: 8 hours

Immerse: 24 hours

Product Features

- Superior anti-corrosive protection for steel and concrete in cold service climates.
- Protective membrane on metal, masonry, silos, all kinds of pipes and stone slabs.
- Application on geotextile to form ponds, to retain overflow, prevent effluent leakage, water and petroleum product leakage.
- Provides an excellent waterproof protection on rigid urethane insulation.
- Garage and parking decks.
- Can be used to repair or replace an existing membrane.
- Excellent abrasion resistance.

Recommended Systems

Moisture Cure Urethanes (MCU) Coatings:	MC-Zinc
Primers:	MC-Miozinc
MC-Ferroclad 100 PW	MC-CR

Compatible Coatings

Moisture Cure Urethane (MCU) Coatings:
Primers:
MC-Ferroclad 100 PW
MC-Zinc
MC-Miozinc
MC-CR

Surface Preparation

See Wasser's Polyurea Application Guide.

Application Information

Plural component heated pump. In order to obtain the optimum results outlined below system must be capable of applying at a pressure greater than 2,500 psi at a temperature of 160°F.

Before application, the receiving coat surface must be cleaned of dirt, soluble salts, dust, oils grease, chalking, and contaminants. Normal preparation includes vacuum, blow-off, SSPC-SP-1 "solvent cleaning," or water-wash containing salt solubilizing agents. This product is normally applied over previously primed surfaces such as MC-Zinc, MC-Miozinc or MC-Ferroclad 100 PW, MC-CR.

Scuff sanding is required before recoating.
Clean in accordance with SSPC-SP-1 "Solvent cleaning" before recoating.

Take care to ensure that proper film thickness is achieved. For more information, consult the Steel Structures Painting Council (SSPC) publication, Good Painting Practice.

Performance Testing Data

Taber abrasion resistance (ASTM D-4060) 1000 CYCLES, 1000 g load	Abrasion wheel type	Average weight loss
	CS-10	No data
	CS-17	5.0 mg
	H-18	No data

Resistance to tearing:
(ASTM D-624-C) Tear strength = 70 N/mm(400 PLI)

Physical Properties

Properties under tension:

(ASTM D 412-C) *Ultimate Elongation = 700 %*

Tensile strength = 6.9

(ASTM D 412-C) *N/mm²* (1000 PSI)

Indication of hardness:

(ASTM D-2240) *Shore A 75*

Ordering Information

Product Numbers:

Package Size: 5 gallon pails (10 gallon sets)

55 gallon drums (110 gallon drum sets)

Order in sets only.

Shelf Life: 1 year

Shipping Information

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.