



TECHNICAL DATA

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AQUALINE 300 POLYUREA

Product Description

A two component, 100% solids, ambient temperature cure polyurea designed to provide excellent resistance to both corrosion and erosion in a large number of different environments. Forms a flexible membrane over both concrete and steel substrates.

Features

- Very good chemical resistance
- Excellent flexibility
- Excellent crack bridging on concrete
- Excellent resistance to thermal shock
- Easily applied by trowel, squeegee or roller

Primers

Steel & Concrete: CS 2000, UU 96

Typical Properties

Solids by Volume	100%	
Volatile Organic Compounds	0.0 lb/gal (0 g/l)	
Theoretical Coverage	1604 ft ² /gal @ 1 mil	
Recommend DFT	60 mils	
Number of Coats	1 or more	
Mix Ratio (by volume)	21 Curative : 79 Resin	
Operating Temperature	Dry Wet	-70° to 180°F 140°F (max)
Color	Grey & Black	

Specification Data

Elongation	400%
Adhesive Tensile Shear ASTM D 1002	2000 psi
Tensile Strength	1300 psi
Tear Strength	250 pli
Hardness ASTM D 2240	90 Shore A

Ordering Information

Packaging:	1.2 gal kit
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APPLICATION INFORMATION

AQUALINE 300

Surface Preparation

Remove all oil, grease or other contaminants from the surface to be coated in accordance with SSPC-SP 1.

Apply over clean, dry, properly applied recommended primers

Mixing

Do not mix polymer and curative components together until ready to use.

Mix curative prior to adding to the polymer. The polymer must be clear and fluid when used.

Add 21 parts curative to 79 parts polymer and power mix thoroughly for about 3 minutes or until a uniform consistency is achieved, being careful to mix material from bottom and sides of the container.

Thinning

DO NOT THIN

Pot Life

Material Temperature	Time
75°F (24°C)	35 minutes

Application Conditions

	Normal	Minimum	Maximum
Material	75-90°F (24-32°C)	55°F (13°C)	90°F (32°C)
Surface	75-90°F (24-32°C)	55°F (13°C)	90°F (32°C)
Ambient	75-90°F (24-32°C)	55°F (10°C)	90°F (32°C)
Humidity	30-50%	0%	85%

- Surface temperature must be 5°F (3°C) above the dew point.

Application

For best results material should be kept and applied at room temperature.

Material should be applied by brush, roller, trowel or squeegee in a minimum of 2 coats to achieved desired thickness.

For flooring applications, pour the mixed materials onto the primed surface and spread out evenly with a notched trowel or squeegee.

For vertical or overhead surfaces, apply in multiple coats using a brush or roller.

Cure Time

These times are based on a 30-50% RH. Excessive film thickness, cooler temperatures or inadequate ventilation will require longer cure times and could result in premature failure.

Surface Temperature

	75°F
Recoat (min)	2 hours
Recoat (max)	24 hours
Full cure	4 days

- If the material has exceeded its maximum recoat time or full cure time contact ITW Futura Coatings for recommended recoating procedures.
- Holiday testing per NACE RP0199-98 should be conducted for all coatings going into immersion service. Use a setting of 100 volts/mil. All pinholes must be marked and repaired.

Safety Information

- Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not apply material in enclosed areas without adequate air exchange and ventilation.
- All application personnel must use respirators rated for organic vapors, or in confined spaces wear fresh air respirators or fresh air hoods.
- Wear protective clothing, gloves and eye protection.
- Breathing fumes or contact with the skin may cause severe allergic reactions.
- **This product is intended for industrial use by properly trained professional applicators only.**

Storage Conditions

- Coatings need to be protected from moisture contamination. Store drums and pails in a dry location at 55-90°F (13-32°C).
- Materials **must** be kept above 55°F (13°C).

ITW FUTURA COATINGS, 1685 GALT INDUSTRIAL BLVD., ST LOUIS, MO, (314) 733-1110

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