

Irathane Aqualine 300

High Performance Grade



DESCRIPTION

Irathane Aqualine 300 is a two component 100% Solids ambient curing elastomeric polyurethane developed to accommodate and overcome the problems of lining large concrete structures successfully. It is also compatible with *Irathane Polyurea 2000* for complex or difficult to access areas where rapid curing spray application may be impractical and also for repairs. A *trowel Grade Version (300T)* is also available in black only

FEATURES

Capitalising on the many years of protecting substrates in the severest abrasion and corrosion environments with the standard range of Irathane products, *Aqualine 300* has been developed with the following features

- High Elastomeric – up to 450% Elongation
- 100 % Solids
- Can be applied by spray, brush, squeegee or trowel to accommodate all configuration and complexities
- Two versions are available
 - *Aqualine 300 A* for application at ambient temperatures as a protective lining
 - *Aqualine 300 T* for high build trowel application such as crack filling, substrate or coating repairs and producing fillets at e.g. wall/floor joints
- Floor characteristics geared to accommodate surface voids and irregularities
- Two colour application to facilitate defect and thickness identification
- Compatible with *Irathane Polyurea 2000* for difficult to access areas and repairs
- Backed by Irathane Quality Assurance and Approved Applicator Network

Aqualine 300 is resistant to seawater, sewage, waste water, detergents and to many acidic and alkaline media in moderate concentrations

Developed especially for use in hostile environments, it is relatively insensitive

TYPICAL APPLICATIONS

- *Lining Settlement/Effluent tanks*
- *Waste water containments and transport*
- *Bund/containment areas*
- *Waterproofing membranes for tunnels*
- *Sewage Digesters*



PRODUCT DATA

Product Data		300	300 T
Application		Ambient	Ambient
Tensile Strength MPa	BS903 Part A2	15	17
Elongation at Break %	BS903 Part A2	450	250
Hardness Shore A	BS903 Part A57	90	98
Abrasion Resistance mm ³	BS903 Part A9 Method A1	155	130
Water Vapour Transmission	ASTM E96 – g/sq.m/24hr	16	n/a
Crack Movement Potential	mm	0-10	0-5
Colours			
Cured SG		0.94-1.05	0.98-1.07
Cure Time	Light Duty Use	1-2 Days	1-2 Days
	Full Cure	10-20 Days	10-20 Days
Mixing Ratio	By volume	2.86:1	2.0:1
Pack Size	Liters	17 Kit 3.4 Kit	4 Kit

SURFACE PREPARATION

See surface preparation data sheet for substrate being coated or relevant method statement, and data sheet for primer system being used. Product should only be applied when substrate is at least 3°C above dew point and Relative humidity is less than 85%



Irathane Aqualine 300

Datasheet

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MIXING

Ensure temperature of product is at least 20°C before mixing, if necessary raise temperature gently, either by standing container (not immersing) in warm water or using indirect heat, Transfer all of the 'C' Component into the 'P' Component & mix thoroughly using a spark proof variable mixer with a spiral jiffy type mixing paddle or similar, taking care not to mix air into the product . minimum drill speed should be 800 rpm. Mix the product for 2 minutes, scrape the side of the container with a long bladed spatula to blend unmixed product and mix for an additional minute. Transfer product to a clean container and mix for a further 1 minute

APPLICATION METHOD



On Horizontal surfaces Aqualine 300 can be poured onto the surface and smoothed out using a suitable straight or notched squeegee, follow by roller finishing if required. Vertical surfaces can be coated by brush (follow by smoothing out with a straight squeegee) but roller application is preferred. Smooth application becomes more difficult as substrate temperature decreases.

N.B. Aqualine 300 is not normally recommended for spray application. In certain instances using specific equipment and conditions, spray application may be achieved (e.g. certain air assisted units, incorporation of inline heaters etc.) alternatively, for airless spray application thin up to 10% dry MEK. Applicators are recommended to ascertain the suitability of the own equipment prior to undertaking work utilising this technique

Clean Up - Equipment must be cleaned immediately after use with EC19 Thinners

- solvent wipe to remove excess moisture and surface contaminants before overcoat. Where solvent wiping cannot be used consult Technical services for an

STORAGE, SHELF LIFE & SAFETY

When stored in the original, unopened containers, at temperatures below 25°C in dry conditions. Aqualine is guaranteed for a period of one year from the date of shipment. Irathane products may contain flammable solvents and/or materials which could be volatile and in some cases irritation to the skin and respiratory system. Use only in adequate ventilation, keep away from sources of ignition. Suitable respiratory equipment and protective clothing must be worn. Read detailed Health & Safety Data Sheet on each product before use.

APPLICATION INFORMATION

Product Data	Part P	Part C	Mixed
Coverage Rates (a) Lt/m ² @ 1mm DFT			1
Colours	Clear		
Standard Kit Size (lts)			
Mixing Ratio	2.86 (volume)	1 (Volume)	
	2.15 (weight)	1 (weight)	
Wet Film Build (vertical)			0.5mm
Material Temperature			
	15°C - min	20°C	30°C
Potlife	50 Minutes	35 Minutes	20 Minutes
Substrate Temperature			
	10°C	20°C	30°C
Recoat Time Minimum	90 minutes	60 minutes	30 minutes
Recoat Time Maximum without reactivation (b)	16 hours	8 hours	6 hours
Solvent wipe, apply UU55 & undercoat	16-36 hours	8-24 hours	6-12 hours
Abrade, solvent wipe, Apply UU55 & Overcoat	>36 hours	>24 hours	>12 hours
Cure: Walk on Time	5 Hours	3 ½ hours	1 ½ hours
Cure: Light Duty Operation	1-2 Days	1-2 Days	1-2 Days
Cure: 80% Physical properties	14 Days	7 Days	3 Days
Cure 100% Physical Properties	20 Days	12 Days	7 Days

DISCLAIMER

The above figure represent mean values obtained in our own laboratory. They do not as such constitute a specification, since ITW Irathane International cannot predict the results which may be obtained from different working conditions on users equipment, it is in the best interest of all customers that they ascertain by relevant tests the suitability of a given system for any application