Datasheet

Irathane Aqualine 400

Potable Water Grade for External Coating

WRAS APPROVED PRODUCT

DESCRIPTION

Irathane Aqualine 400 is a 100% solids elastomeric polyurethane developed for external coating of potable water structures

FEATURES

Aqualine 400 has been developed with the following features

- Conforms to the requirements of BS6920 and is a 'Water Regulations Advisory Scheme – Approved Product' reference 0010507
- Highly elastomeric – up to 350% elongation, Capable of accommodating crack growth from 0-10mm
- 100 solids
- Can be applied by roller, brush or squeegee to accommodate all configuration and complexities
- Two colour application to facilitate defect and thickness identification
- Moisture tolerant
- Backed by Irathane Quality Assurance and Approved Applicator Network
- Enhanced UV stability

TYPICAL APPLICATIONS

- *External coating of concrete tanks and reservoirs – gritted version avoids soil reinstatement*
- *Overbanding construction and expansion joints*

PRODUCT DATA

Product Data		*400 A*
Application		Ambient
Tensile Strength MPa	BS903 Part A2	10
Elongation at Break %	BS903 Part A2	350
Hardness Shore A	BS903 Part A57	80
Abrasion Resistance mm³	BS903 Part A9 Method A1	180
Water Vapour Transmission	ASTM E96 – g/sq.m/24hr	25
Crack accommodation at 1.5mm nominal DFT		0-10
Colours		● ●
Cured SG		0.95-1.05
Cure Time	Light Duty Use	1-2 Days
	Full Cure	12-28 Days
Mixing Ratio	By volume	2.86:1
Pack Size	Liters	17 Kit

REPAIR

Should Aqualine become worn or damaged, it can easily be repaired (consult your Irathane approved applicator

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%

In enclosed areas, tanks etc., sufficient airflow must be achieved to remove an evaporating water

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MIXING

Ensure temperature of product is at least 20ºC 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 DO NOT BREAK DOWN KITS

APPLICATION METHOD

On Horizontal surfaces ***Aqualine 400A*** can be poured onto the surface and smoothed out using a suitable straight or notched squeegee

On vertical surfaces, ***400A*** can be applied by roller or brush

Smooth application becomes increasingly difficult when the substrate temperature falls below 10ºC

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

- Allowance for wastage should be made e.g. surface irregularities
- If the humidity rises over 85%, or temperature drops below the recommended dew point, when the atmospheric condition return to the recommended levels, solvent wipe to remove excess moisture and surface contaminants before overcoat. Where solvent wiping cannot be used consult Technical

STORAGE, SHELF LIFE & SAFETY

When stored in the original, unopened containers, at temperatures below 25ºC 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 EQUIPMENT

Product Data	*Part P*	*Part C*	*Mixed*
Coverage Rates (a) Lt/m² @ 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			
	15ºC - min	20ºC	30ºC
Potlife	60 Minutes	35 Minutes	20 Minutes
Substrate Temperature			
	10ºC	20ºC	30ºC
Recoat Time Minimum	90 minutes	60 minutes	30 minutes
Recoat Time Maximum without reactivation (b)	16 hours	8 hours	6 hours
Abrade & Overcoat	>16 hours	>8 hours	>6 hours
Cure: Walk on Time	6 Hours	5 hours	3 hours
Cure: Light Duty Operation	1-2 Days	1-2 Days	1-2 Days
Cure: 80% Physical properties	21 Days	10 Days	5 Days
Cure 100% Physical Properties	28 Days	25 Days	12 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