



## TECHNICAL DATA SHEET - AQUALINE 400

Revised: 05/2018

### PRODUCT DESCRIPTION

A two component 100% solids ambient temperature curing elastomeric coating system specifically developed for use on concrete potable water structures.

### RECOMMENDED APPLICATIONS

Suitable for use on concrete structures where BS6920 approval is required typically external sealing of water towers and service reservoirs.

### FEATURES

- BS 6290 approved
- 100% solids
- Easy to apply

### PACKAGE SIZE

17L



### PRODUCT DATA

#### PHYSICAL PROPERTIES

COLOUR	P Component is Clear C Component is Black or Grey Mixed product is Black of Grey
MIX RATIO BY VOLUME	2.86 : 1
MIX RATIO BY WEIGHT	2.15 : 1
% SOLIDS BY VOLUME	100
POT LIFE AT 15°C (Mins)	45-60
POT LIFE AT 25°C (Mins)	30-40
POT LIFE AT 35°C (Mins)	15-25
WET FILM BUILD (mm)	Horizontal 1, Vertical 0.25-0.50

#### PERFORMANCE PROPERTIES

TENSILE STRENGTH (MPa) BS6903 PART A2	7-10
ELONGATION (%) BS6903 PART A2	300-400
TEMPERATURE RESISTANCE (°C)	Maximum 65
COVERAGE	1.0 L/m <sup>2</sup> /mm dft
CURED HARDNESS (SHORE A) BS6903 PART A57	78-83

**APPLICATION INFORMATION**
**SURFACE PREPARATION**

Proper surface preparation is essential to achieve the full potential of the system. Consult the relevant method statement for the application / substrate in question.

Product should only be applied in conditions where the Temperature is >3°C above the dew point and Relative Humidity is <85%.

**MIXING**

Prior to commencing use of the product ensure that the two components are stored a temperature of no lower than 20°C, a temperature of around 25°C is preferable and can be achieved by means of indirect heating with water or in a heated room.

Thoroughly mix the C component prior to use. Transfer all of the C component into the P component and mix thoroughly using a variable speed mixer with a spiral or jiffy type mixer paddle taking care not to mix air into the product. Minimum mixer speed should be 800 rpm. Mix the product for 2 minutes, scrape the sides of the container with a long bladed spatula to ensure there is no unmixed product then mix for a further 1 minute. Transfer the contents into another container and mix for a final minute.

**DO NOT BREAK DOWN KITS**
**APPLICATION**

On horizontal surfaces the product can be applied by roller or poured directly onto the surface, spread out using a squeegee and, if required, finished with a roller.

On vertical surfaces it should be applied by roller or brush with care to avoid over application and subsequent running.

Review the appropriate method statement for detailed application instruction.

**CURE**

Cure times are quoted in the table below. For use in applications requiring WRAS approval, 20 days at 7°C minimum is the required cure to comply.

	SUBSTRATE TEMPERATURE		
	10°C	20°C	30°C
CURE WALK ON @ 1.5MM (HOURS)	6	5	4
CURE LIGHT DUTY @ 1.5MM (DAYS)	1-2	1-2	1-2
CURE 80% @ 1.5MM (DAYS)	21	10	5
CURE 100% @ 1.5MM (DAYS)	28	25	12
RECOAT TIME MINIMUM (MINUTES)	90	60	30
MAXIMUM WITHOUT REACTIVATION (HOURS)	24	12	8
ABRADE, DEDUST + OVERCOAT	>24	>12	>8

**CLEAN UP**

All equipment should be thoroughly cleaned directly after use using MEK or suitable alternative where such cleaning is possible.

**SHELF LIFE & STORAGE**

A shelf life of 12 months from date of shipment can be expected when stored at room temperature (~22°C) in their original unopened containers.

**PRECAUTIONS**

For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.

**WARRANTY**

ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control we can accept no liability for the results obtained.

**DISCLAIMER**

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

For further product information or technical assistance please call +353 61 771 500.

**ITW PERFORMANCE POLYMERS**

Bay 150 | Shannon Industrial Estate | Shannon, County Clare | Ireland | T: +353 61 771500 | customerservice.shannon@itwpp.com | www.itwperformancepolymers.com