

# Ø5 ACRYLIC WATERSTOP

## Technical Data Sheet

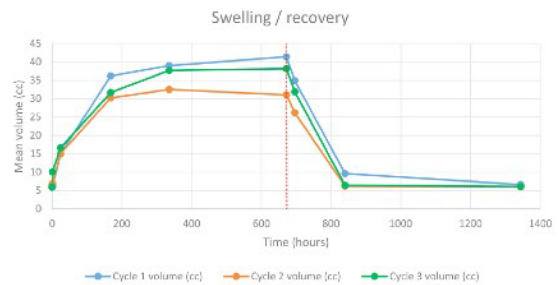


### Tensile Strength

(TS ISO 37, Rubber Plate, Type 1, 5 specimens, Pulling speed: 500mm/min., Conditioning 23°C-50%, Median value: 2.1 MPa, Date: 15.10.2019)

### BBA TEST NO: T1-61007

This product has been tested by BBA (British Board of Agrément) BBA Test No: T1-61007



Note: The dotted red line indicates the end of the swelling and the start of the recovery cycle.

### PRODUCT DESCRIPTION

Ø5 Acrylic Waterstop is a new generation high performance acrylic polymer based expanding tape. It expands up to 900% when in contact with water. In a totally dry state, Ø5 Acrylic Waterstop will shrink to its original installation dimension and re-expand on wetting. Ø5 Acrylic Waterstop is used in concrete construction for the sealing of construction joints including wall to base connections, pipe entry systems, sealing of openings and interface sections between existing and new concrete. Ø5 Acrylic Waterstop is easily stored in its original moisture-proof wrap in cool, dry conditions away from sunlight.

### ADVANTAGES

Conformable, can be used on a variety of irregular substrates. Forms an impermeable barrier against water in concrete. Excellent compliance with deformed surfaces and joints. Saves time and labour. Easy to apply. Simple overlap jointing on site. No hardening time required. No welding required. Swells in salt water.

### SIZE

Ø5 mm 220 meters in the box  
(Sizes may vary upon request.)

### TECHNICAL DATA

The increase in volume was measured when specimens were immersed in tap water at 23°C over a 28 day period. Recovery volume was measured when the specimens were removed from the solution and air dried over a 28 day period. This method was repeated over three cycles. The percentage change in volume calculations are all based on the initial volume.

**Application Temperature:** -10°C / 50°C

**Density:** 1,40 g/cm<sup>3</sup>

**Shore:** 50

The expansion rating is affected according to CaCO<sup>3</sup> and salt content. Contains no traces of Bentonite.

Day 28 ≥ 600% Wet/dry difference ≥ 600%

Water pressure resistance (28 days): 7 bar

Colour: Red, Yellow, Blue

### Elongation Break

(TS ISO 37, Rubber Plate, Type 1, 5 specimens, Pulling speed: 500mm/min., Conditioning 23°C-50%, Median value: 553%, Date: 15.10.2019)

Swelling	Cycle 1		Cycle 2		Cycle 3		Average change (%)
	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	
Initial	5.84	-	6.84	13.70	6.02	3.08	8.38
1 hour	6.18	5.82	6.88	17.81	10.07	72.43	32.02
1 day	14.99	156.68	15.07	158.05	16.63	184.78	166.50
7 day	36.19	519.89	30.23	417.64	31.69	442.84	459.99
14 day	39.06	568.84	32.54	457.19	37.71	545.72	523.92
28 day	41.41	609.08	31.07	432.02	38.19	553.94	531.68
Recovery	Cycle 1		Cycle 2		Cycle 3		Average change (%)
	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	
1 day	34.97	498.80	26.22	348.97	31.93	448.75	431.51
7 day	9.83	84.90	6.195	6.08	6.47	10.79	27.25
28 day	6.84	13.70	6.02	3.08	6.14	5.14	7.31

Note: Observations to the samples throughout testing confirms that there was no degradation of the material throughout the duration of the test.

### HYDROPHILIC STRIP (SWELLABLE TAPE)

The hydrophilic material, when immersed in clean tap water for a period of 28 days, will exhibit a minimum volume increase of at least 6 times.

Additionally, when the hydrophilic material is immersed in a saltwater solution containing 1% chloride (as SO<sub>3</sub>) and 0.5% sulfate ions for 28 days, it will exhibit a minimum volume increase of at least 4 times.

A sample of the hydrophilic material will be weighed and immersed in purified water for a duration of 28 days. At the end of the period, the sample will be dried in an oven at 50°C until no further weight change is recorded. The percentage of weight change after the wetting and drying cycle shall not exceed 6% of the original weight.

### TECHNICAL DATA (SELF-ADHESIVE)

**Adhesive:** High Tackified Solvent Based Acrylic (Modified Version)

**Backing:** Clear Polyester (PET)

**Total Thickness:** 205 mic. (+/- 5%) --> without liner

**Adhesion Strength on Steel:** 28 N / 25mm (+/-3) (accor. to AFERA 5001)

**Application Temperature:** +10°C - +30°C

**Working Temperature:** -40°C , +130°C (short term: +145°C)

**Release Liner:** White Glassine Paper Liner

**Width:** 5 mm (net usable width) **Length:** 55 mt

Please ask for different widths which we can rewind into any lengths.

**Note:** Sizes may vary upon request.

