

PYRAMID 900

Hydrophilic Acrylic Waterstop



PRODUCT DESCRIPTION

PYRAMID900 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, PYRAMID900 will shrink to its original installation dimension and re-expand on wetting. PYRAMID900 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. PYRAMID900 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.

STANDARD SIZES

Rectangular Section with Pyramid Shape 
Section Size: 5 mm x 20 mm
Length: 20 meters Roll

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. The percentage change in volume calculations are all based on the initial volume.

Application Temperature: -10°C / 50°C

Density: 1,40 g/cm³

Shore: 50

The expansion rating is affected according to CaCO₃ and salt content. Contains no traces of Bentonite.

Swelling Capacity at:

Tap Water: **≥900%** Salt Water: **≥300%** Wet/dry Cycle: **≥500%**

Water pressure resistance (14 days): **7 bar**

Color: **Yellow**

Elongation Break

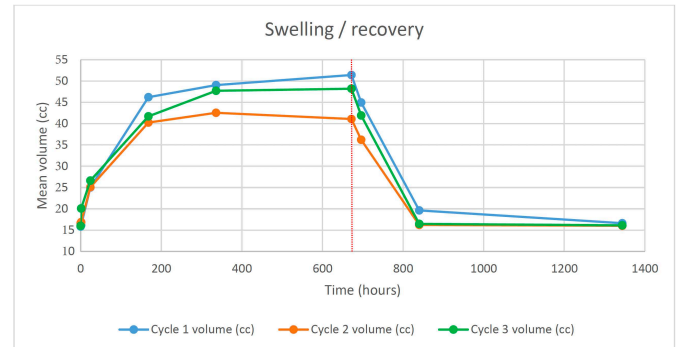
(TS ISO 37, Rubber Plate, Type 1, Pulling speed: 500mm/min., Conditioning 23°C-50%, Median value: 553%, Date: 19.11.2024)

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.

Swelling	Cycle 1		Cycle 2		Cycle 3		Average change (%)
	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	
Initial	9.84	-	8.64	22	7.02	16	13
1 hour	16.18	7	16.88	56	17.07	63	42
1 day	34.99	236	25.07	235	36.63	242	237
7 day	46.19	951	40.23	896	41.69	941	929
14 day	49.06	997	42.54	949	47.71	959	968
28 day	51.41	1030	41.07	981	48.19	989	1001
Recovery	Cycle 1		Cycle 2		Cycle 3		Average change (%)
	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	Mean mass (cc)	Change (%)	
1 day	44.97	698	36.22	582	41.93	591	623
7 day	19.63	164	16.195	26	16.47	29	73
28 day	16.64	24	16.02	13	16.14	12	16

