PRONIL ACR 300

Technical Data Sheet



PRODUCT DESCRIPTION

Pronil ACR 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, Pronil ACR will shrink to it's original installation dimension and re-expand on wetting. Pronil ACR 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. Pronil ACR is easily stored in it's 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

05 mm x 20 mm 20 metres roll 140 metres in the box
10 mm x 20 mm 10 metres roll 70 metres in the box
20 mm x 25 mm 5 metres roll 25 metres in the box

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/cm³
Shore: 50

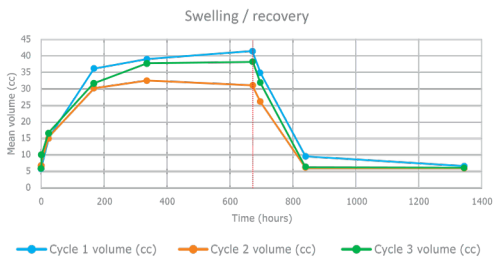
The expansion rating is affected according to $CaCO^3$ and salt content.
Contains no traces of Bentonite.

Day 7 **≥300%** Wet/dry difference **≥300%**
Water pressure resistance (14 days): **7 bar**
Colour: **Red**

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)

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



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	5.84	-	6.64	13.70	6.02	3.08	8.39
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	184.76	166.50
7 day	36.19	519.69	30.23	417.64	31.69	442.64	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	446.75	431.51
7 day	9.63	64.90	6.195	6.08	6.47	10.79	27.25
28 day	6.64	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.

MADE IN TURKEY

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