



# SUPROBAND ACR

## Hydrophilic Waterstop Tape, Plugs, Rings

New generation high performance waterstops which expanding up to 900% when in contact with water



## DESCRIPTION

SUPROBAND 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, SUPROBAND ACR will shrink to it's original installation dimension and re-expand on wetting. SUPROBAND 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. SUPROBAND 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

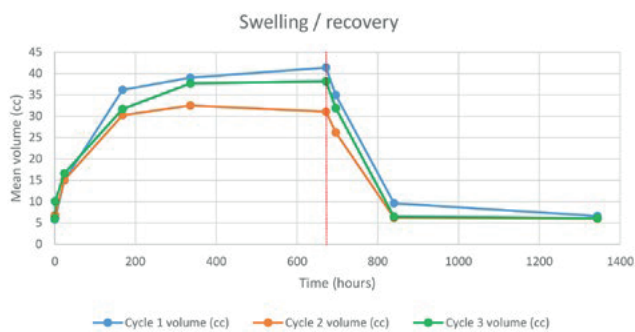
05 mm x 20 mm 20 metres roll 140 metres in the box  
 10 mm x 20 mm 10 metres roll 70 metres in the box  
 20 mm x 25 mm 5 metres roll 25 metres in the box

## 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/cm<sup>3</sup> | Shore: 50

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



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	158.68	15.07	158.05	16.63	184.78	188.50
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	84.90	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.

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



### SUPROBAND ACR-1300 (Self-Adhesive option)

Tap water, wet/dry difference **≥300%** Concrete water (14 days) **≥200%**  
 3% salt water (14 days) **≥100%** Water pressure resistance (14 days): **7 bar**  
 Colour: **Red**



### SUPROBAND ACR-1600 (Self-Adhesive option)

Tap water, wet/dry difference **≥600%** Concrete water (14 days) **≥400%**  
 3% salt water (14 days) **≥200%** Water pressure resistance (14 days): **7 bar**  
 Colour: **Yellow**



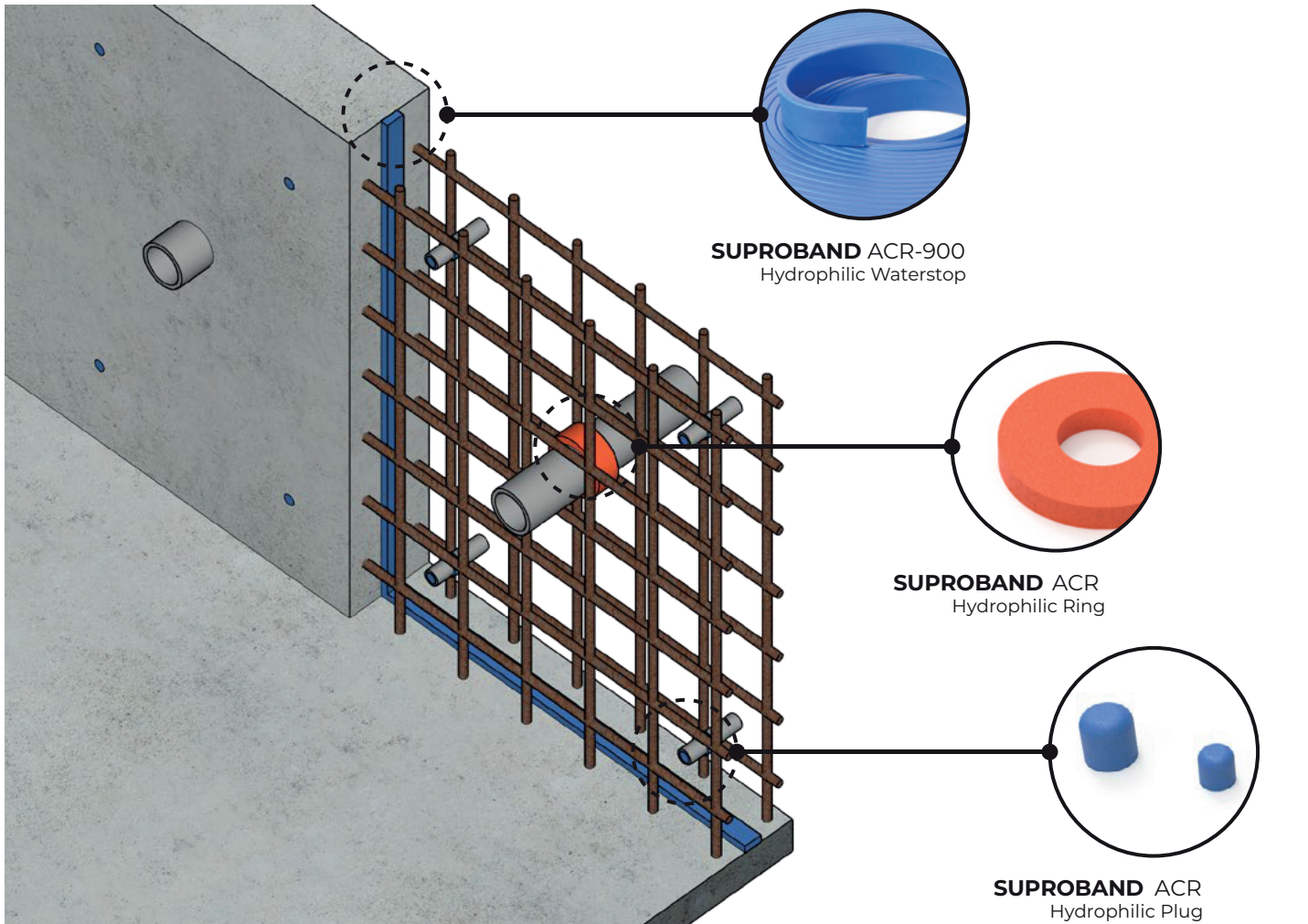
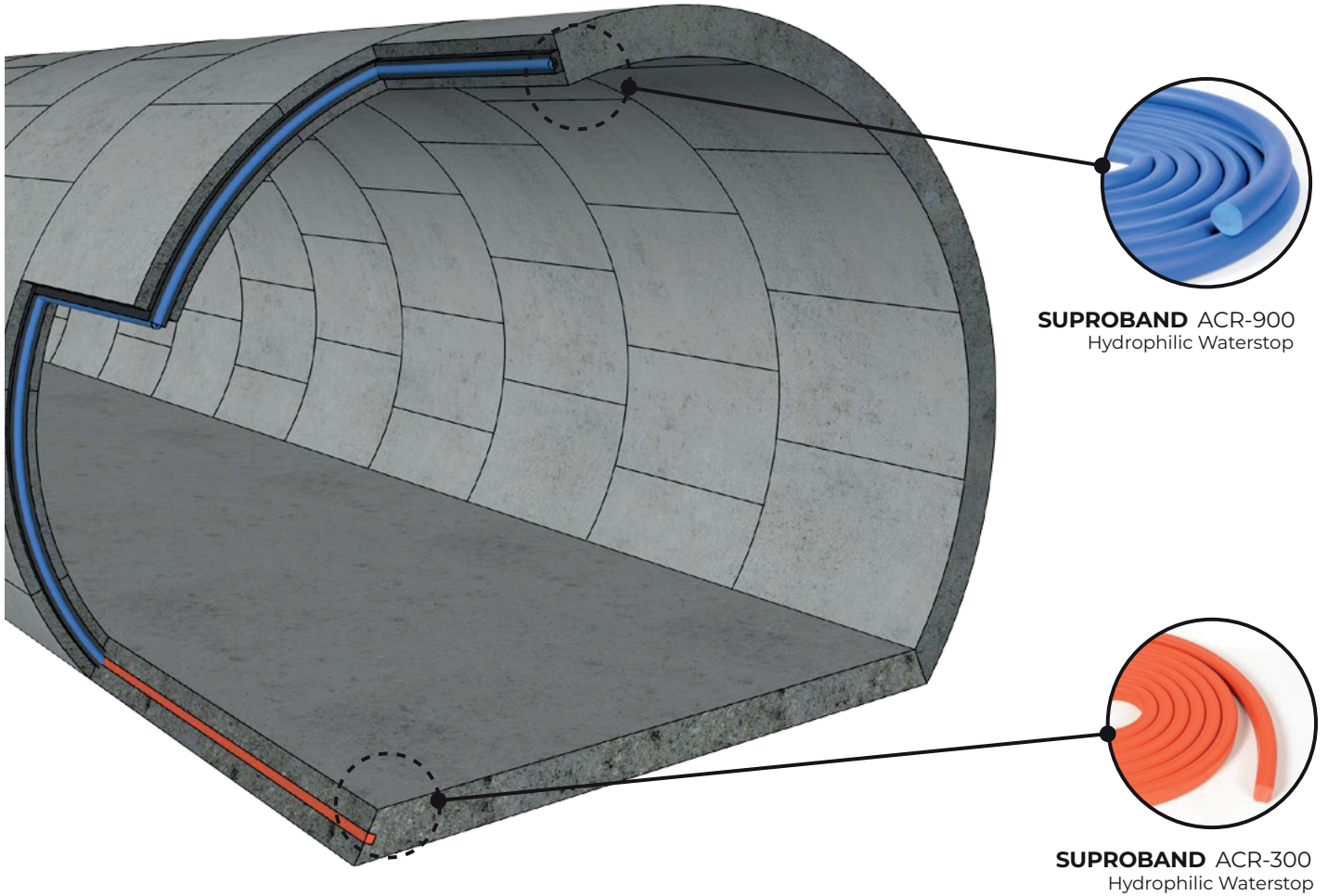
### SUPROBAND ACR-1900 (Self-Adhesive option)

Tap water, wet/dry difference **≥1300%** Rain water (14 days) **≥900%**  
 Concrete water (14 days) **≥600%** 3% salt water (14 days) **≥300%** Water pressure resistance (14 days): **7 bar** Colour: **Blue**



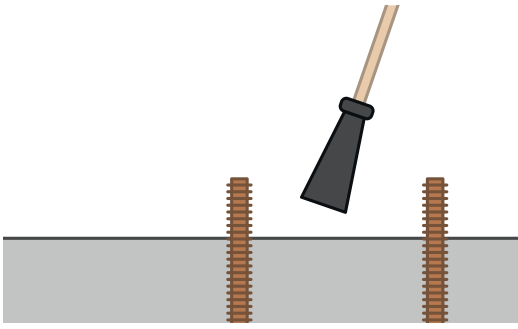
### PLUGS & RINGS

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

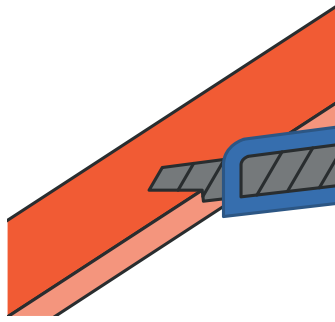


# APPLICATION METHOD

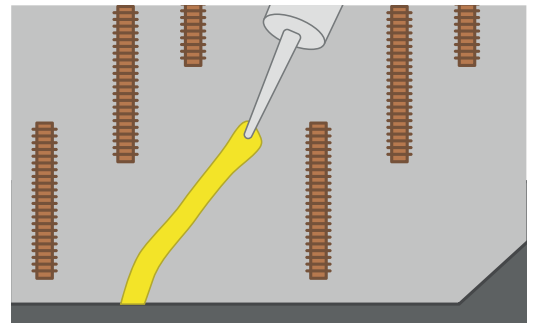
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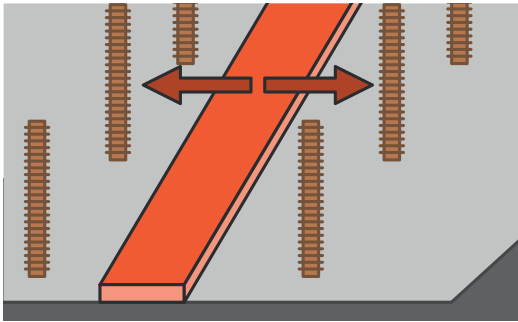
1. Clean the surface. All loose particles can negatively affect the bonding to the surface.



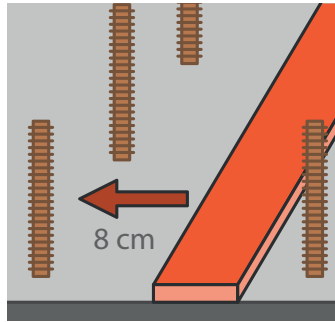
2. Cut the **SUPROBAND ACR** to the required length.



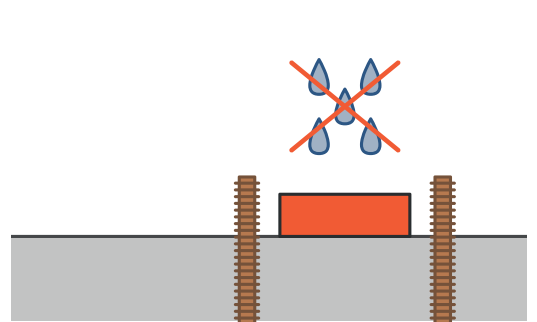
3. Apply the adhesive to the clean surface



4. Press the **SUPROBAND ACR** into the applied adhesive. It is important to get a full bonding to the surface.



5. The **SUPROBAND ACR** needs a concrete cover of at least 8 cm.



6. Protect **SUPROBAND ACR** the gainst water (e.g. rain) until the concrete is placed.