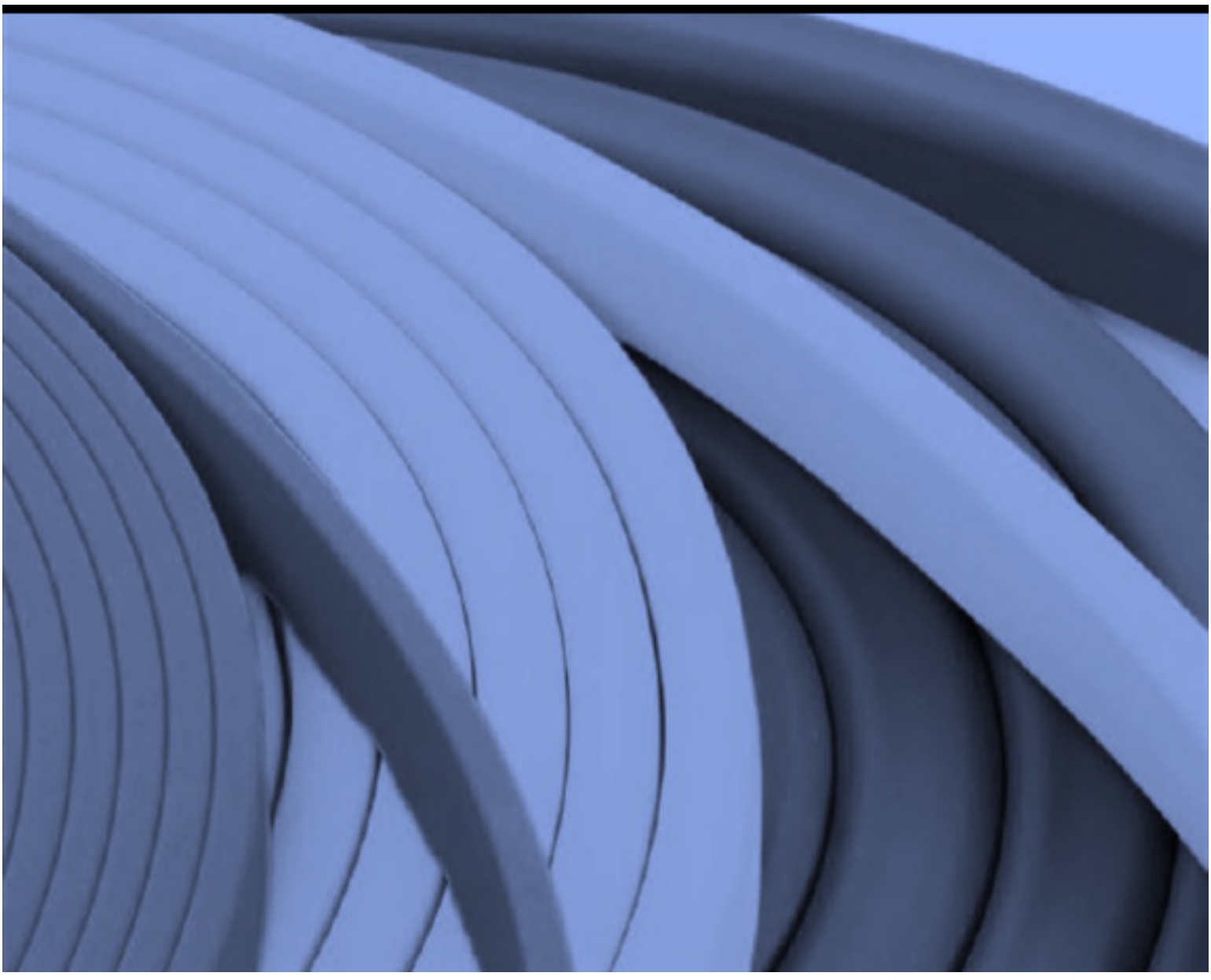
UNIWATERSTOP

Hydrophilic Water Retaining Wicks, Plugs, Rings

New generation high performance waterstops that expand up to 900% when in contact with water



DESCRIPTION

UNIWaterstop is a new generation high performance acrylic polymer based expanding rod. It expands up to 900% in contact with water. It will shrink to its original installation size when completely dry and will expand again when wet.

UNIWaterstop is used for sealing construction joints in concrete structures, including wall-to-floor connections, pipe entry systems, insulation of openings and interface sections between existing and new concrete. It is easily stored in its original moisture-proof packaging in a cool and dry environment, away from sunlight.

ADVANTAGES

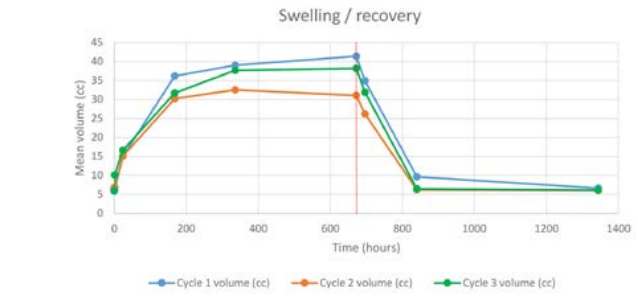
Compatible, can be used on a variety of irregular surfaces. Creates an impermeable barrier against water in concrete. Perfectly adapts to deformed surfaces and joints. Saves time and labor. Easy to apply. Simple overlap jointing on site. No hardening time required. No welding required. Swells in salt water.

STANDARD SIZES

05 mm x 20 mm	20 m roll	1 box	140 m
10 mm x 20 mm	10 m roll	1 box	70 m
20 mm x 25 mm	5 m roll	1 box	25 m

TECHNICAL DATA

* The increase in volume was measured when the samples were immersed in tap water at 23°C for a period of 28 days.
* The volume recovery was measured when the samples were removed from the solution and air dried for a period of 28 days. This method was repeated for three cycles. All percentage changes in volume calculations are based on the initial volume.
* Application Temperature: -10°C / 50°C | Density: 1.40 g/cm3 | Shore: 50
* The degree of expansion is affected by the CaCO3 and salt content. Contains no traces of bentonite.
* BBA Test Number: T1-61007
* This product has been tested by the BBA (British Board of Agrément).



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.

UNISU STOPPER - UWS3
Day 7 ≥%300 Wet/dry difference ≥%300
Water pressure resistance (14 days): 7 bar
Color: Red

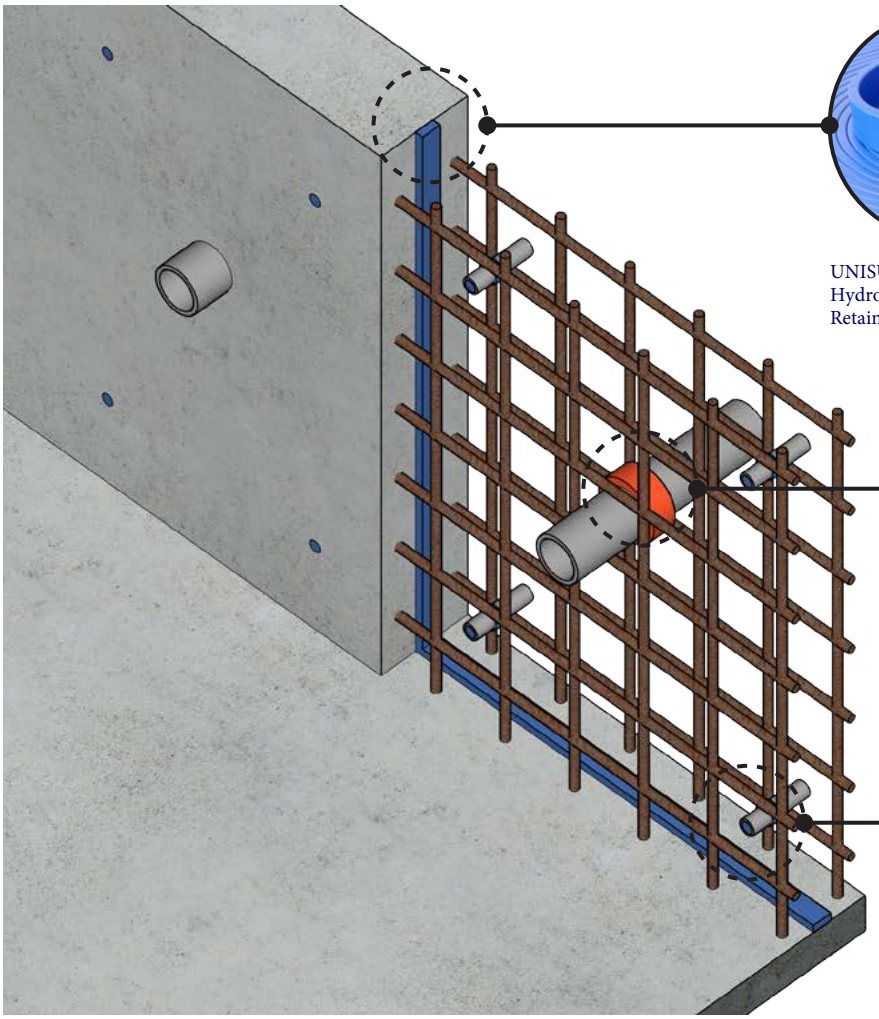
UNISU STOPPER - UWS6
Day 7 ≥%600 Wet/dry difference ≥%600
Water pressure resistance (14 days): 7 bar
Color: Yellow

UNISU STOPPER - UWS9
Day 7 ≥%900 Wet/dry difference ≥%900
Water pressure resistance (14 days): 7 bar
Color: Blue

UNISU STOPPER PLUGS AND RINGS
Day 7 ≥%300 Wet/dry difference ≥%300
Water pressure resistance (14 days): 7 bar
Color: Blue, Red

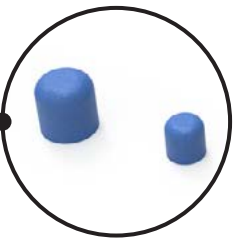
UNISU Stopper-UWS9
Hydrophilic Water
Retaining Wick

UNISU Stopper-UWS3
Hydrophilic Water
Retaining Wick



UNISU Stopper-UWS9
Hydrophilic Water
Retaining Wick

UNISU Retaining Rings
Hydrophilic Ring



UNISU Retaining
Plugs Hydrophilic Plug