

PRODUCT DATA SHEET

SikaSwell®-910 AP IN

(formerly MSeal 910AP)

Hydrophilic swellable joint sealing profiles

DESCRIPTION

SikaSwell®-910 AP IN is a rectangular acrylic sealing profile. It swells in contact with water to seal all types of construction joints and penetrations in concrete structures.

USES

Joint sealing:

- Construction joints
- Pipe and steel work penetrations through walls and floor slabs
- Around all types of penetrations and connection joints
- Construction joints in cable ducts

CHARACTERISTICS / ADVANTAGES

- Highly economical joint sealing solution
- Unique properties fill small cracks and voids
- Versatile solution for joints and details
- Permanently water resistant (wet & dry cycles)
- Resistant to various chemical substances
- Easy and fast to apply
- Can be applied on different substrates
- Available in different sizes

APPROVALS / STANDARDS

Tested as per requirements of Railways(RVNL) or Metro Railways in India

PRODUCT INFORMATION

Chemical base	Acrylic polymer
Construction	Rectangular cross-section
Packaging	<ul style="list-style-type: none">▪ 20 x 5mm ($\pm 5\%$) 100 linear meters per carton▪ 20 x 10mm ($\pm 5\%$) 100 linear metres per carton. (Other sizes possible based on volume)
Shelf life	12 months from the date of production
Storage conditions	The product must be stored in original, unopened and undamaged pack-

aging in dry conditions at temperatures between +5°C and +35°C. Always refer to packaging.

Density	~1.50 kg/l (at +23°C)	
Solid content by weight	~ 100%	(ISO 2286-2016,Part-2)

TECHNICAL INFORMATION

Shore A hardness	≥ 50	(ASTM D2240-2015)									
Expansion	Change of volume (Unrestrained) <table><tr><td>Time</td><td>Demineralised water</td><td>(EN 14498)</td></tr><tr><td>7 days</td><td>~175 %</td><td></td></tr><tr><td>30 days</td><td>≥ 200 %</td><td></td></tr></table> <p>Note: Swelling properties in saline water will be reduced and delayed. Use SikaSwell® A Maritim version.</p> <p>Note: In a totally dry state the Product shrinks to its original dimensions. The product then expands again upon further contact with water.</p>		Time	Demineralised water	(EN 14498)	7 days	~175 %		30 days	≥ 200 %	
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7 days	~175 %										
30 days	≥ 200 %										
Water penetration under pressure	Resists Hydrostatic pressure upto 10 bar approx (Approx 100m column of water)	(DIN16726:2017,DIN EN 1928)									
Service temperature	-20°C to +50°C										
Operating pressure	Swelling pressure <p>The pressure developed by the material depends on the stiffness of the surrounding concrete structure, which is influenced by the concrete quality, voids, gaps and other weaknesses.</p> <p>Note: In an ideal concrete structure the material can develop a swelling pressure of ~10 bar.</p>										

APPLICATION INFORMATION

Ambient air temperature	+5°C to +35°C
Substrate temperature	+5°C to +35°C
Substrate moisture content	Dry or matt damp. Do not apply in construction joints with existing standing water

SYSTEM INFORMATION

System structure	Adhesive	SikaSwell® S-2
	Swelling profile	SikaSwell®-910 AP IN
Note : In case adhesive is not available please reach out to our Technical services team for alternative options		

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

Surface Preparation

All joints to be waterproofed with SikaSwell®-910 AP IN must first be cleaned. Free standing water and sharp protrusions must be avoided. SikaSwell®-910 AP IN can be installed on moist or frozen surfaces. SikaSwell®-910 AP IN waterbars are resistant to most ordinary mould release agents, but if in doubt the installed waterbar should always be protected from accidental exposure to form release agents and the released agent should be scraped before applying the adhesive for better bonding

Placing

For normal joint widths of 200-400mm, MasterSeal

910 AP is placed in the middle of the joint. For added safety thicker walls can be fitted with 2 waterbars. SikaSwell®-910 AP IN are glued into the joint with SikaSwell® S-2 hydrosellable sealant. On the vertical surfaces the SikaSwell®-910 AP IN is temporarily fixed to the construction joint with a nail until the adhesive dries. For other fixing methods connect with your local Technical services team.

SikaSwell®-910 AP IN MUST always be secured so that the waterbar is in close contact with the surface of the substrate otherwise the full waterproofing effect will not be obtained. After placing the SikaSwell®-910 AP IN waterbar the joint area should be kept clean and free of loose dirt and stones before concreting. The minimum concrete cover of SikaSwell®-910 AP IN Waterbar is 80mm.

Functional Behaviour

When in contact with water the SikaSwell®-910 AP IN will slowly increase in volume (swell) without changing the homogeneous structure of the polymer matrix. The increase in volume by the swelling action can be up to 200% in tap water and up to 80-100% in salt water up to 3% salt content. The pressure of the swelling action will cause the SikaSwell®-910 AP IN Waterbar to profile itself exactly into the joint filling all cavities and effectively stopping water seepage, even at high external water pressure.

SikaSwell®-910 AP IN waterbars will not transport water through their polymer matrix and thus not act as a capillary duct. The swelling action is limited to the sides exposed to water. In a totally dry state the Product shrinks to its original dimensions. The product then expands again upon further contact with water

IMP Notes

- Do not use SikaSwell®-910 AP IN profiles for movement joints.
- SikaSwell®-910 AP IN profiles expand when in contact with water. This is not instantaneous and will take a few hours.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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