

Technical Data Sheet

StoDivers Swellstop

Swellable hydrophilic water stop for in-situ concrete



Characteristics

Area of application	<p>StoDivers Swellstop provide simple solutions to detailing difficult and complex shape of non-moving joint such as:</p> <ul style="list-style-type: none"> ▪ Construction joints ▪ Pipe entries ▪ Slabs ▪ Water retaining structures such as water tanks, sewage treatment plants, water treatment plant, swimming pools, box culverts, reservoir, dams and spillway ▪ Water excluding structure such as basements, tunnels, underground structures, retaining walls, pits and manholes ▪ General joints such as new to old concrete, slabs, underground structures
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Properties

<p>Hydrophilic swellable water-stop with delayed swell upon contact with water. The expansion of the hydrophilic polymer creates a positive pressure against the face of the concrete joint thus preventing water passing through the protected joint</p> <ul style="list-style-type: none"> ▪ Easy to install, no special welding equipment needed ▪ Highly adaptable to accommodate tricky joint shapes ▪ Easily installed onto rough or smooth surface ▪ Tolerant to salts in ground water and in concrete ▪ Flexible polymer ▪ Delayed swell allow concrete to gain strength before expansion ▪ Durable towards long exposure to wet and dry cycle ▪ Cost effective alternative to PVC water stop ▪ Non-toxic and requires no special handling

Application method

- Installed in place using contact adhesive or nails

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Criteria	Standard / test specification	Value / Unit	Notes
Base material		Butyl	
Size		20 x 15 mm 25 x 19 mm	
Specific gravity		1.40 – 1.45	
Hydrocarbon Content	ASTM C297	> 47 %	
Hydrostatic head pressure resistance		Tested to 6 Bar (60 meter)	
Expansion :	0 – 4 days	Minimal expansion	
	7 days	118 %	
	14 days	131 %	
	28 days	142 %	
	56 days	177 %	

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

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Application							
Substrate Preparation	The substrate to be treated must be dry, clean and free from dust, dirt or any other deleterious matters. Ensure that the substrate is strong and sound to contain the expansion of the waterstop.						
Application Procedure	<p>Brush a coat of contact adhesive 30 mm wide onto the concrete surface and one coat onto the surface of StoDivers Swellstop.</p> <p>Once the adhesives at both surfaces were touch dry, firmly place and press the StoDivers Swellstop bar into position. Ensure that a continuous uninterrupted gasket is formed. Check for any interrupted bonds.</p> <p>There must be no visible gaps under the StoDivers Swellstop installation. The protective paper layer cover on the StoDivers Swellstop can be removed any time prior to the pour of concrete.</p> <p>Concrete can be placed onto the placed StoDivers Swellstop once the contact adhesive has dried. This is to ensure the StoDivers Swellstop remain in place during the concreting works.</p> <p>For vertical construction joints, it may be necessary to secure the StoDivers Swellstop with nails placed approximately at 250 mm intervals.</p>						
Consumption	As per supplied						
Temperature	<table border="1"> <thead> <tr> <th><u>Service Temperature</u></th> <th><u>Application Temperature</u></th> </tr> </thead> <tbody> <tr> <td>Minimum application temperature - 34 °C</td> <td>Minimum application temperature - 23 °C</td> </tr> <tr> <td>Maximum application temperature + 82 °C</td> <td>Maximum application temperature + 52 °C</td> </tr> </tbody> </table>	<u>Service Temperature</u>	<u>Application Temperature</u>	Minimum application temperature - 34 °C	Minimum application temperature - 23 °C	Maximum application temperature + 82 °C	Maximum application temperature + 52 °C
<u>Service Temperature</u>	<u>Application Temperature</u>						
Minimum application temperature - 34 °C	Minimum application temperature - 23 °C						
Maximum application temperature + 82 °C	Maximum application temperature + 52 °C						
Delivery							
Colour	Black						
Packing	StoDivers Swellstop is available in individual 5 meter roll. (6 rolls packed in a carton)						
Storage							
Storage life / conditions	The shelf life of StoDivers Swellstop in unopened and undamaged packaging is 12 months if stored in cool and dry condition. Protect from contact with any water.						

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Special notes

Health & Safety Please refer to Safety Data Sheet

Technical Support Please consult the local sales office for further information and any site assistance required.

The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.

Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.

When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on www.sto-sea.com.

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*Product images may differ from the actual product.