

Technical Data Sheet

StoBit Seal 99W

Liquid applied, water-based bituminous elastomeric waterproofing membrane



Characteristics

- Area of application**
- Concrete water tanks (non-potable water)
 - Wet areas
 - Basements
 - Retaining walls
 - Foundations walls
 - Lift pits
 - Planter boxes
 - Roof top

Properties

- Water-based and environmentally safe
- Exhibits excellent elastomeric properties which can easily accommodate all normal building movements to ensure permanence of waterproof seal
- Excellent adhesion to most concrete and masonry substrates
- Ability to bridge cracks up to a minimum of 2mm in width
- Once dry can sustain total submersion
- Liquid application to complex details to form a joint less than extremely durable waterproof membrane.
- Excellent resistance to water, heat and fire
- Good resistance to alkali and turpentine

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Criteria	Standard / test specification	Value / Unit	Notes
Total solids	SS 133	Min. 65 %	
Density		1.25 kg/L	
Water penetration	DIN 1048	0 mm	
Water vapour transmission	ASTM E96	> 15 g/m ² /day	
Adhesion to substrate	ASTM D4541 (adopted)	0.4 N/mm ²	
Tensile Strength *	ASTM D412	> 5.0 N/mm ²	
Elongation	ASTM D412	> 500 %	
Shore A Hardness *	ASTM D2240	> 30	
Crack Bridging	ASTM C836 (adopted)	2 mm	
* with StoDivers GF Net			

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.

Substrate

Requirements

The substrate to be treated must be dry, clean and free from dust, dirt, grease, moss, lichen or any other deleterious matters that have a separating action.

Defective substrate such as cracks and honeycombs etc. shall be chased out and repair with Sto Repair System prior to application.

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Application					
Application temperature	Lowest application temperature: +8°C Highest application temperature: +45°C				
Material preparation	StoBit Seal 99W is supplied ready to use. Do not dilute further.				
Consumption	<table border="1"> <thead> <tr> <th>Type of application</th> <th>Approx. consumption</th> </tr> </thead> <tbody> <tr> <td>The coverage rate</td> <td>0.60 – 0.80 kg/m² per coat</td> </tr> </tbody> </table>	Type of application	Approx. consumption	The coverage rate	0.60 – 0.80 kg/m ² per coat
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	The coverage rate	0.60 – 0.80 kg/m ² per coat			
Each coat should achieve a wet film thickness of about 600 – 700 microns and the complete system must reach at least 1 mm thick.					
Material consumption depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project.					
Application method	Apply with brush, roller or airless sprayer				
Coating Procedure	<p><u>Priming</u> Prime the substrate with one coat of StoBit Primer W or with StoBit Seal 99W diluted with 10% clean water. Allow it to dry for 24 hours. For extremely old and porous substrate, an additional coat of primer is necessary.</p> <p><u>Placing</u></p> <ol style="list-style-type: none"> For Glass Fibre reinforced surfaces (minimum 3 coats). <ul style="list-style-type: none"> Apply the first body coat of StoBit Seal 99W at right angle to the primer coat after 24 hours. Allow to dry for approximately 2 hours. When the first body coat is dry, unroll StoDivers GF Net over it. Immediately, apply a second body coat ensuring that StoDivers GF Net is completely immersed with StoBit Seal 99W to ensure effective bonding. Leave to dry for at least 24 hours. Apply a final coat of StoBit Seal 99W. Leave to cure. For Concrete Surfaces (minimum 2 / 3 coats). <ul style="list-style-type: none"> Apply the first coat of StoBit Seal 99W at right angle to the primer coat after 24 hours. Allow to dry for approximately 2 hours. Apply the second coat and leave to dry. An optional final coat can be carried once the preceding coat is dry. Leave to cure. Follow-on screed must be at least 50 mm thick to ensure good bonding to the material. <p><u>Note :</u></p> <ol style="list-style-type: none"> Protect from rain and frost until curing. Material will be washed off when not fully cured. Allow new cementitious substrates to fully cure before application of any materials. Ensure protection from other trade works to prevent puncture or damage. 				
Cleaning the tools	Tools must be cleaned immediately after use with clean water.				
Notes, recommendations, special information, miscellaneous	Please consult the local sales office for further information and any site assistance required.				

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Delivery		
Colour	Greyish Brown	
Packaging	Name	Packing
	StoBit Seal 99W	20 lit (approx. 25 kg)
Storage		
Storage conditions	Store in cool dry conditions; avoid direct sunlight.	
Storage life	This product has a shelf life of 12 months from the manufacturing date.	
Identification		
Product group	Waterproofing	
Safety	Please refer to Safety Data Sheet.	
Special Notes		

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.