

# Sikalastic®-850 W

## Elastic liquid waterproofing coating for humid premises

### Product Description

Sikalastic-850 W is a ready to use, single-component, solvent-free, liquid waterproof system, which forms a waterproof, flexible, crack-resistant membrane under hard protection (e.g. ceramic tiles or stone materials). Do not use Sikalastic-8 W on surfaces which are immersed continuously in water such as swimming pools, fountains, water tanks etc.

### Uses

Liquid elastic waterproof membrane for internal use in:

- Bathrooms, shower rooms
- Kitchens
- Plumbing rooms
- Passageways in public or private parts (alleyways, stairways, etc.)
- Swimming pool surrounds

The membrane must be covered with hard protection (tiles or natural stones) after drying.

### Characteristics / Advantages

- Single component: Ready-to-use
- Solvent-free
- Waterproof
- Water vapour permeable
- Suitable for horizontal & vertical applications
- Suitable for use with floor heating
- Crack-bridging
- Rapidly covered with a hard protection
- Good adhesion on concrete, mortar, plaster, plaster tile, cardboard plaster panel, tiling and earthenware, wood-derivative panels (CTBH, CTBX)

### Tests / Approval / Standards

Certificate of compliance with APSEL-CSFE Trade Rules (intermediate flooring waterproofing) issued by VERITAS.

VERITAS LABORATORY Report: No. GEN 1 I 0000 70 C 01 and 02

### Product Data

#### Form

#### Appearance / Colours

Pale blue

#### Packaging

10 kg pails

#### Storage Conditions / Shelf Life

12 months

From date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.

### Technical Data

#### Chemical Base

Acrylic dispersion

#### Density

~ 1.26 kg/litre



<b>Curing Speed /Rate</b>	Minimal waiting time prior to overcoating of primer Sikalastic-850 W diluted with water 1:1 by volume: 2-3 hours (at 20°C, 60% air humidity) Minimal drying time prior to overcoating of Sikalastic-850 W: 3 hours (at 20°C, 60% air humidity) Minimal Drying time after application of 2 <sup>nd</sup> layer prior to covering with hard protection: 12 hours (at 20°C and 60% air humidity) Lower temperatures and higher relative humidity will extend the waiting times between the single applications.		
<b>Solids Content</b>	~ 67%		
<b>pH</b>	~ 9		
<b>Layer Thickness</b>	Minimum 0.5 mm dry film thickness ( acc. to German ZDB bulletin, classification A1 for uses 0, A01 and A02)		
<b>Service Temperature</b>	-5°C min. / +35°C max.		
<b>Mechanical / Physical Properties</b>			
<b>Elongation at Break</b>	~ 285%		(AFNOR NF T 51-034)
<b>Crack-Bridging Capacity</b>			
	23°C	0°C	-5°C
	5.7 mm	3.9 mm	2.9 mm
(in compliance with AFNOR NF T 84-402, measured with 1mm dry film thickness)			
<b>Endurance to substrate motions at 0°C</b>	No breaking after 500 amplitude cycles +/- 1mm (CSTB logbook No. 2358"roof waterproofing FIT classification")		
<b>Perpendicular Tensile Adhesion on Cement Mortar</b>	– initial condition: 1.1 MPa – after climatic cycles: 1.1 MPa (in compliance with AFNOR NF T 24-624)		
<b>Water Pressure Resistance</b>	No water flowing under a pressure of 0.06 MPa (6mm WG) (UEAtc directives-Roof waterproofing-July 1982)		
<b>Blister Susceptibility Test</b>	No blister, no alteration (in compliance with AFNOR NF T 84-402)		
<b>Application Details</b>			
<b>Consumption / Dosage</b>	To make a crack-bridging waterproofing membrane, the dry film thickness of Sikalastic-850 W must be at least 0.5 mm, which represents about 1.2 kg/m <sup>2</sup> applied in two layers. The actual quantity depends on the roughness and porosity of the substrate.  10 kg bucket: ~ 8 m <sup>2</sup>  25 kg bucket: ~ 21 m <sup>2</sup>		
<b>Substrate Quality</b>	The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm <sup>2</sup> ) with a minimum pull off strength of 1.5 N/mm <sup>2</sup> .  The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.  If in doubt, apply a test area first.		

<b>Substrate Preparation</b>	<p><b>Concrete substrates</b> must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.</p> <p>Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.</p> <p>Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor, SikaDur and SikaGard range of materials.</p> <p>The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.</p> <p>High spots must be removed by e.g. grinding.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p> <p><b>Old tiling:</b> Grind the surface and remove dust. Clean to remove grease as required.</p> <p><b>Wood (or wood derivative) panels:</b> Clean them and remove the dust.</p> <p><b>Priming with Sikalastic-850 W diluted with water (1:1 by volume):</b></p> <ul style="list-style-type: none"> <li>– <b>Concrete and mortar substrates with high porosity:</b> Consumption: 130g/m<sup>2</sup>.</li> <li>– <b>Cellular concrete and plaster tiles:</b> After having repaired the joints, remove the dust and apply one layer of primer, Consumption: 300 g/m<sup>2</sup></li> <li>– <b>Fibre cement boards:</b> Consumption: 200 g/m<sup>2</sup></li> <li>– <b>Lightweight autoclaved aerated concrete (Siporex):</b> Consumption: 750 g/m<sup>2</sup></li> </ul> <p>These are approximate values, the actual quantity depends on the roughness and porosity of the substrate.</p> <p>Besides the primer Sikalastic-850 W diluted with water (1:1 by volume) it is also possible to use the product with the following primers: SikaTop 50, Sikafloor-155 WN, Sikafloor-156, Sika Primer-11 W.</p>
<b>Application Conditions / Limitations</b>	
<b>Substrate Temperature</b>	+5°C min. / +35°C max.
<b>Ambient Temperature</b>	+5°C min. / +35°C max.
<b>Substrate Moisture Content</b>	Sikalastic-850 W is compatible with wet substrates. However their surface must be free of film or puddles of water.
<b>Relative Air Humidity</b>	75% RH max.
<b>Dew Point</b>	Beware of condensation!
	The substrate and uncured membrane must be at least 3°C above dew point to reduce the risk of condensation or blooming of the membrane finish.
<b>Application Instructions</b>	
<b>Mixing</b>	Homogenise Sikalastic-850 W using a mixer fitted with a low-speed impeller (less than 300 rpm)
<b>Application Method / Tools</b>	After surface preparation apply at least two layers (0.6 kg/m <sup>2</sup> per layer) of Sikalastic-850 W with a medium-hair woolen roller.
	<p>The second layer must only be applied after the first layer is dry (drying time: at least 3 hours at 20°C and 60% relative air humidity).</p> <p><b>Waterproofing of connection joints &amp; expansion joints:</b></p> <p>Use Sika SealTape-S in order to guarantee a continuous waterproofing coat between walls and floors as well as between contiguous walls and floors. Special Sika SealTape-S shapes are available for pipe lead throughs (use Sika SealTape-SWF (Wall Flashing) or Sika SealTape-SFF (Floor Flashing)) as well as inside and outside corners (use Sika SealTape-SOC (Outside Corner) or Sika SealTape-SIC (Inside Corner)). All Sika SealTape-S tapes, flashings and corners need to be applied into the first layer of Sikalastic-850 W while it is still soft and need to be embedded into the 2nd layer after the first one is dry.</p>

## *Laying of the protection:*

The coating must be covered with a hard protection. (ceramic tiles, stone slabs). For bonding tiles or equivalent materials, use SikaCeram C2 type or an adhesive compatible with Sikalastic-850 W. The application can take place after the second layer has been hardening for 12 hours (at 20°C/60% RH.)

Wait at least 24 hours at 20°C/60% RH in the case of wear-resisting layers or anchored tiles.

## **Cleaning of Tools**

Clean all tools and application equipment with water immediately after use. In cured conditions only mechanical removal is possible.

## **Notes on Application / Limitations**

It may be necessary to protect Sikalastic-850 W temporarily to prevent the waterproofing from getting damaged before placing the final hard protection.

Sikalastic-850 W is not designed for making flat roof or reservoir waterproofing, or as a waterproofing coating for tanks.

## **Value Base**

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.

## **Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## **Health and Safety Information**

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## **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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