

Sikalastic®-450

Elastic liquid polyurethane waterproof membrane

Construction

Description	Sikalastic-450 is a one-component, elastic, moisture curing polyurethane waterproof membrane.
Uses	<p>Sikalastic-450 can be used as a waterproof membrane on:</p> <ul style="list-style-type: none"> ▪ Shower recesses ▪ Wet areas ▪ Decks, terraces and balconies (under tiles) ▪ Retaining walls ▪ Planter boxes <p>Sikalastic-450 can be used on most substrates found in the building industry.</p>
Advantages	<ul style="list-style-type: none"> ▪ Good crack-bridging capabilities ▪ Highly elastic ▪ Fast curing ▪ Simple application ▪ Economical ▪ Approved in accordance with AS 4020 - 2002 "Approval for Use in Potable Water".
Storage and Shelf Life	Approximately nine (9) months from date of manufacture when stored in its unopened original containers in a cool, dry place.
Instructions for Use	
Surface Preparation	<p>Surfaces must be clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa.</p> <p>All dust, loose and friable materials and glaze or varnish of tiles must be completely removed by mechanical means. Existing coatings have to be inspected, cleaned and mechanically ground to achieve a sound, gripping substrate. In case of bad adhesion to the substrate, existing coatings have to be removed.</p>
Application	<p>The product can be applied by brush, roller or airless spray. Work in well with a brush in difficult areas. Apply following layers after the first one has cured tack free.</p> <p><u>Coating system for normal substrates:</u> 2 – 3 x Sikalastic-450 (0.25-0.30 kg/m² per coat).</p> <p><u>Coating system for dense substrates:</u> 1 x Sikalastic-450 diluted with max 15 % Thinner C (0.30-0.35 kg/m²). 1 – 2 x Sikalastic-450 (0.25-0.30 kg/m² per coat).</p> <p>When Sikalastic-450 has been applied and exposed to UV light it can start to yellow without losing its physical properties. To cover the yellowing surface of the UV-exposed Sikalastic-450 we recommend to colour and protect it with one layer of Sikafloor-400N Elastic or Sikafloor-410 as an excellent UV protection.</p>
Mixing	<p>Prior to application stir Sikalastic-450 thoroughly by means of an electric stirrer (approx. 300 – 400 rpm) in order to achieve a homogeneous mixture. After stirring let the product settle in order to let entrapped air escape. Entrapped air may lead to bubble formation.</p>
Tiling	<p>If Sikalastic-450 is to be tiled, quartz sand should be broadcast into the topcoat to give the surface a mechanical key.</p> <p>Before tiling the membrane should be fully cured. Tiling should commence immediately after it is fully cured. The membrane must be clean and free of dirt, oil, grease and contaminants. Tiling should be conducted using 2 part polymer modified tile adhesives and paper tiling practice should be observed</p>



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Application Conditions	<p>During the curing process micro bubbles are formed. This is a system-specific characteristic, which does not affect the protective properties. Ensure that the material is not applied with high film thickness in one layer (specified as above) as this may create unnecessary bubbles.</p> <p>For better application do not allow liquid Sikalastic-450 to be exposed to the sun or other heat sources. If necessary, further layers can be applied. The product can be over painted by itself.</p>
Cleaning	Use Thinner C for non-hardened material on equipment. Hardened material may have to be mechanically removed.
Technical and Physical Data	
Form	Liquid polyurethane
Colour	White
Density	1.4 kg/litre (DIN 53 217, 23°C/50% R.H.)
Solids Content	Approx. 85%
Elongation at break	450%. The elastic properties are maintained at temperatures as low as -20°C
Tensile strength	6 MPa
Pot life	Sikalastic-450 is designed for quick drying. Therefore the material will dry very fast at high temperatures combined with high air humidity.
Recoating times	24 hours @ 10°C 6-8 hours @ 20°C 5-6 hours @ 30°C
Rate of reaction	<u>Foot traffic resistant:</u> 16-20 hours @ +10°C 5-7 hours @ +20°C 5-6 hours @ +30°C Rain resistant after 5 hours.
Packaging	7 kg and 21 kg pail
Important Notes	<ul style="list-style-type: none"> Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities. Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.
Handling Precautions	<ul style="list-style-type: none"> Avoid contact with foodstuffs and utensils. Avoid inhaling vapours. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles etc. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately. Avoid all sources of ignition. No smoking. For further information refer to the Sika Material Safety Data Sheet which is available on request
Important Notification	<p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>

