

(Template for local translation, only for internal use)

## Sikalastic®-490 T

Transparent, one-component liquid-applied polyurethane waterproofing membrane

### Product Description

Sikalastic®-490 T is a transparent, glossy, hard-elastic, one-component moisture curing polyurethane for durable waterproofing. This high-technology coating is UV-stable, weather stable, alkali resistant and even after aging it remains transparent and elastic.

### Uses

- Waterproofing, refurbishing and protecting of balconies, terraces
- Waterproofing of atriums, roof lights, greenhouses
- Protection against frost, carbon-dioxide and acid rain

### Characteristics / Advantages

- Simple application
- Cost effective
- UV-stable and resistant to yellowing
- Seamless waterproofing membrane
- Weather stable from -30°C to +80°C
- Suitable substrates:  
Ceramics, natural stones, glass, glass-bricks, polycarbonate
- Allows pedestrian traffic
- Can be cleaned easily
- Alkali and chemical resistant

### Tests

**Approval / Standards** MPA Braunschweig, Germany

### Product Data

#### Form

**Appearance / Colours** Liquid / Transparent

**Packaging** One way container: 20 kg and 5 kg pails

#### Storage

##### Storage Conditions / Shelf Life

Store at dry conditions at temperatures between +5°C to +30°C.  
Prevent exposure to sunlight.

9 months from date of production if stored properly in original, unopened and undamaged sealed container. Expiry date on container.



## Technical Data

<b>Chemical Base</b>	Polyurethane high solids prepolymer	
<b>Density</b>	0.99 g/ml	
<b>Tack-free Time</b>	After 8 - 12 hours	
<b>Water Vapour Permeability</b>	$\geq 6 \text{ g/m}^2 / 24 \text{ hours}$	EN ISO 12572
<b>Adhesion</b>	To ceramic tile: $\geq 2 \text{ N/mm}^2$	ASTM D 903

## Mechanical / Physical Properties

<b>Resistance to Water Pressure</b>	No leak (1 m water column, 24 hours)	EN 1928
<b>Tensile Strength</b>	$\geq 5 \text{ N/mm}^2$	EN ISO 527
<b>Shore (D) Hardness</b>	25	ASTM D 2240
<b>Elongation at Break</b>	> 250%	EN ISO 527

## Resistance

<b>Chemical Resistance</b>	Good resistance against most acidic and alkali solutions (5%), detergents, seawater and lubricants.
<b>Thermal Resistance</b>	Maintains its mechanical properties over a temperature range of -30°C to +90°C

## System Information

### Application Details

<b>Consumption / Dosage</b>	Consumption of 1 - 3 layers depends on absorbency and the intended use of the surface to be waterproofed or refurbished.  Surface sealing against dust and contamination: $\sim 0.2 \text{ kg/m}^2$ in 1 thin layer.  Waterproofing membrane (closed substrate & low pedestrian traffic): $\sim 0.7 \text{ kg/m}^2$ in 2 layers of $0.3 - 0.4 \text{ kg/m}^2$ each.  Waterproofing membrane (absorbent substrate & high pedestrian traffic): $\sim 1.0 \text{ kg/m}^2$ in 3 layers of $0.3-0.4 \text{ kg/m}^2$ each.
<b>Substrate Quality</b>	The surface to be bond must offer sufficient strength and adhesion to resist the forces generated by traffic and construction movement.
<b>Substrate Preparation</b>	The substrate must be firm, clean, dry, free of stripping agents and free of oil, grease, silanes, salts, silicone, siloxanes and other chemicals which could cause poor adhesion. Make sure that the maximal moisture content does not exceed 5 %. New concrete has to dry minimal 28 days.  Repair all cracks with adequate products

### Application Conditions / Limitations

<b>Ambient Temperature</b>	At least +5°C to +35°C
<b>Substrate Temperature</b>	At least +5°C to +35°C
<b>Substrate Moisture Content</b>	$\leq 4\%$ pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet)
<b>Relative Air Humidity</b>	85% RH max.

<b>Dew Point</b>	<p>Beware of condensation!</p> <p>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.</p>
<b>Application Instructions</b>	
<b>Application Method / Tools</b>	<p><b>Priming:</b></p> <p>Glazed surfaces, such a glazed tiles, glass and glass bricks have to be primed with Sika® Primer-490 T. See relevant product data sheet.</p> <p>Sika® Primer-490 T shall be applied by soaking a clean and dry cloth and rubbing the entire surface. Use sufficient amount of cloth and make sure that all spots of the surface are covered.</p> <p>On unglazed, absorbent surfaces e.g. natural stones, prior to application of two layers of Sikalastic®-490 T, it is necessary to pretreat the substrate by applying Sikalastic®-490 T diluted with 30-40% of Thinner C. ( consumption appr. 0.2 – 0.4 kg/m<sup>2</sup>) This is to prevent ascending salts to penetrate to the surface-membrane interface and causing undesired, visible effects.</p> <p>In any cases an adhesion test is recommended, if circumstances and surface history are not clear.</p> <p><b>Transparent waterproofing/refurbishing:</b></p> <p>After Sika® Primer-490 T has been cured for app. 1-2 hours apply Sikalastic®-490 T by roller or brush until the entire surface is covered.</p> <p>It is recommended to use a solvent-resistant, short-piled lambskin roller in order to prevent formation of air bubbles.</p> <p>A second coat should be applied after 12 hours –but no later than 18 hours waiting time.</p> <p>Each layer's thickness should not exceed 1 mm (dry film) thickness.</p> <p>A third layer can be applied to achieve better waterproofing and better pedestrian traffic resistance results.</p> <p>Fully cured Sikalastic®-490 T can be overworked with itself at any time: remove all dirt and avoid any contamination and clean thoroughly with e.g. Thinner C.</p> <p>In order to increase safety against slipperiness, a suitable anti-skid treatment should be installed. For instance glass pellets or kiln-dried quartz sand could be sprinkled onto the still wet coating.</p>
<b>Cleaning of Tools</b>	<p>Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.</p>
<b>Notes on Application / Limitations</b>	<p>Do not use Sikalastic®-490 T on concrete and other cementitious surfaces and unglazed terracotta.</p> <p>Sikalastic®-490 T is not suitable for applications with standing water, e.g. swimming pools, fountains</p> <p>Do not apply Sikalastic®-490 T on ceramic or other surfaces with ascending nitric or sulphuric salts ( in the joints or surfaces) without suitable pretreatment.</p> <p>Do not apply Sikalastic®-490 T on surfaces treated in the past with active silane, siloxane, silicone or other water-repellents, because of expected poor adhesion.</p> <p>In any cases an adhesion test is recommended, if circumstances and surface history are not clear.</p> <p>Only regular cleaning agents are suitable for cleaning, do not use any chlorine-containing cleaning agents.</p>
<b>Curing Details</b>	
<b>Applied Product ready for use</b>	<p>Rain resistant after</p> <p>Accessible for light pedestrian traffic: 24 - 48 hours</p> <p>Final curing after: 7 days</p>

## 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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