BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-495 T

Polyurethane Transparent Balcony Tile Coating

DESCRIPTION

Sikalastic®-495 T is a 1-part, transparent, glossy, durable, elastic coating for tiled balconies and terraces. Protects and retains the appearance of the tiled surface and produces an enhanced aesthetic appearance.The coating also provides an easily cleanable surface with water shedding properties.

CHARACTERISTICS / ADVANTAGES

- 1-part ready to use
- Easy application
- Transparent
- Vapour permeable
- Compatible with different substrates
- Low maintenance

USES

- Tiled balconies
- Tiled terraces

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	5 l container (~5,2 kg), 15 litre container (~15,5 kg)	
Colour	Transparent / clear	
Shelf Life	9 months from date of production.	
Storage Conditions	Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	1,03 g/ml at 23 °C	(EN ISO 2811-1)
Solid content by weight	~77 % (+23 °C / 50 % r.h.)	
Solid content by volume	~75 % (+23 °C / 50 % r.h.)	

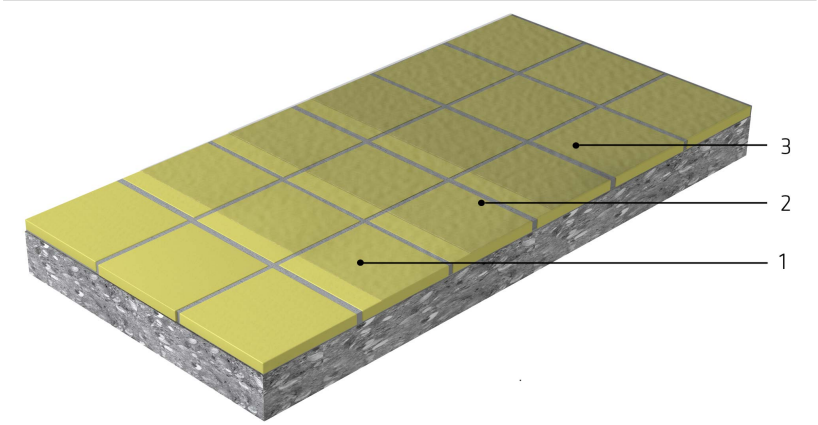
TECHNICAL INFORMATION

Shore D Hardness	~48	(ASTM D 2240)
Tensile Strength	≥ 20 N/mm²	(EN ISO 527)
Elongation at Break	~250 %	(EN ISO 527)
Water Vapour Transimission	~4 g/m²/24 h	(EN ISO 12572)

Chemical Resistance	Sikalastic®-495 T resists contact with weak acids and alkalis, as well as many common household cleaning detergents. To ensure the best performance, remove all spillages as soon as possible to reduce risk of staining. Avoid strong bleach solutions. Always check the effect of a cleaning detergent or chemical on the coating by applying to a small test area first. If any reaction occurs such as discolouration or surface effect, the detergent or chemical should not be used.
Service Temperature	- 20 °C to +80 °C

SYSTEM INFORMATION

System Structure



Layer	Product	Consumption
1. Primer	Sika® Aktivator Pro	~50 ml/m²
2. 1st coat	Sikalastic®-495 T	~0,4 l/m²
3. 2nd coat	Sikalastic®-495 T	~0,4 l/m²

1. The build up shown in the diagram corresponds to a **Standard** 2-coat system. This is the minimal system build up.
2. For high pedestrian traffic, a **High** standard 3-coat system is required. 3 × Sikalastic®-495 T at 0,4 l/m²/coat.
3. For high absorbent substrates and additional durability requirements, a High standard 3-coat system may be required. 3 × Sikalastic®-495 T at 0,4 l/m²/coat.

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +35 °C max.
Relative Air Humidity	30–85 %
Substrate Temperature	+5 °C min. / +35 °C max.
Dew Point	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 final finish. Note: Low temperatures and high humidity conditions increase the probability of blooming. Ensure above conditions are also maintained throughout the entire curing process.
Substrate Moisture Content	≤ 4 % by weight Test Method: Sika-Tramex meter, CM – measurement or Oven-dry-method. No rising moisture according to ASTM (polyethylene-sheet).

Waiting Time / Overcoating

Ambient Conditions	Min. waiting time Overcoating	Rain Resistant	Full cure
+23 °C / 50 % r.h	12 hours	24 hours	7 day

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

BASIS OF PRODUCT DATA

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.

FURTHER DOCUMENTS

- Refer to Sikalastic®-495 T Method Statement.

LIMITATIONS

- After application, Sikalastic®-495 T must be protected from damp, condensation and direct water contact (rain) during curing.
- Do not apply Sikalastic®-495 T on substrates with rising moisture. All substrates with trapped moisture must be allowed to dry completely. To be sure of exact moisture content of substrate, remove a tile in the affected areas and take moisture measurements.
- Do not use on high porosity concrete / cementitious surfaces as blistering of the coating may occur.
- Not suitable for applications with standing water, e.g. swimming pools, fountains.
- Do not apply on joint grout, porous tiles, ceramic or other surfaces if efflorescence is present. Remove efflorescence chemically or mechanically prior to applying coating.
- Surfaces must be thoroughly cleaned prior to applying coating in situations where acidic solutions have been used to remove efflorescence.
- Do not apply on surfaces previously treated with silane, siloxane or other water repellent products as this could affect adhesion.
- Do not apply Sikalastic®-495 T over grout joints with high movement.
- Repair cracked grout joints before applying Sikalastic®-495 T.
- If Sikalastic®-495 T needs to be repaired, ensure all existing material is removed before preparing the substrate for re-application.
- Do not dilute under any circumstances.

ECOLOGY HEALTH AND SAFETY

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

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

According to the EU Directive 2004/42/CE, the maximum allowed content of VOC (product category IIA / i type sb) is 500 g/l (Limits 2010) for the ready to use product.
The maximum content of Sikalastic®-495 T is < 500 g/l VOC for the ready to use product.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The substrate must be firm, clean, dry, free from cleaning agents, oil, polish, grease, wax, salts, silanes, silicone, siloxanes and other chemicals or contaminants that could cause poor adhesion.
Old coatings must be removed. Ensure all tiles are securely fixed. Replace any broken or missing sections.
Moisture content of the tile grout/adhesive must be ≤ 4 % by weight.
All dust, loose and friable material must be completely removed from all surfaces before application of the product.
Attention: To confirm adequate surface preparation and coating adhesion, carry out a small trial before full application.

APPLICATION

Primer
All surfaces must be primed with Sika® Aktivator Pro (refer to product data sheet). Apply Sika® Aktivator Pro using a dry clean cloth and wiping the entire application area. Change cloth when it becomes dirty. Allow Sika® Aktivator Pro to dry for approximately 1–3 hours.
Coating
1st coat: Sikalastic®-495 T is poured and spread evenly over the substrate by means of a serrated trowel and then using a suitable foam roller to remove any trowel marks. Back-roller in two directions at right angles to each other. Do not 'over- roll' the material, as this might increase the risk of air bubbles appearing.
2nd – 3rd coats: Apply using the same method as for the 1st coat allowing waiting times of between 12 and 24 hours between each coat.
Slip Resistance
To increase the slip resistance of the coating, glass beads or kiln-dried quartz sand can be broadcast immediately into the wet coating. (Refer to Sikalastic®-495 T Method Statement).

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.

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 re-

serves 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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