

PRODUCT DATA SHEET

SikaRoof® MTC-20 UV

High performance, UV-stable liquid applied polyurethane roof waterproofing system

DESCRIPTION

SikaRoof® MTC-20 UV is a cold-applied, seamless, highly elastic and UV-stable moisture triggered polyurethane roof waterproofing system consisting of Sikalastic®- 488 and Sikalastic®- 701. Suitable for use in hot and tropical climatic conditions.

USES

SikaRoof® MTC-20 UV may only be used by experienced professionals.

SikaRoof® MTC-20 UV can be used as following:

- Roof waterproofing solution for new construction and refurbishment projects
- For roofs displaying complex detail areas and geometry, even when accessibility is limited
- For cost efficient life cycle extension of failing roofs

CHARACTERISTICS / ADVANTAGES

- Aliphatic topcoat, resistant to UV exposure, color stable
- Highly reflective (RAL 9016) and resistant to yellowing and low dirt pick up
- Highly elastic and crack-bridging even at low temperatures
- Resistant to long term ponding water
- Cold applied system– requires no heat or flame
- Easily recoated – no stripping required
- Seamless membrane and water vapour permeable
- Good resistance to common atmospheric chemicals
- Top coat available in white and grey

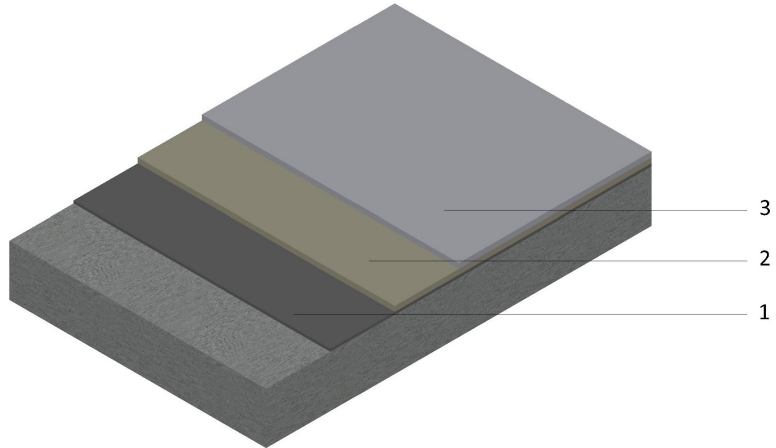
APPROVALS / CERTIFICATES

- AS 4654.1-2012: Sikalastic® 488 (base coat membrane)
- Fire Testing EN 13501-1, Sikalastic®-701, Sikalastic®-702, warringtonfire, Report No.19896B
- ASTM D7896- Solar reflective index/ Thermal emittance testing- Sikalastic®-701

SYSTEM INFORMATION

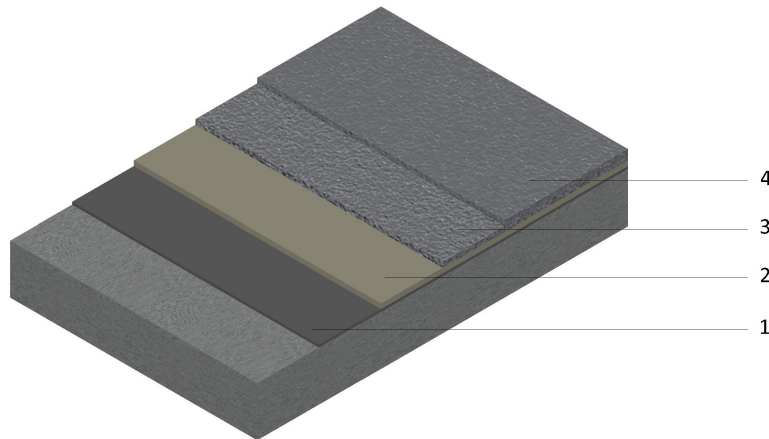
System structure

Standard SikaRoof® MTC-20 UV application without non-slip addition:



Layer	Product	Required DFT
1. Primer	Sikalastic® Moisture Seal or Sikalastic®- 100 EP Primer	Please refer to PDS of the Primer
2. Base coat	Sikalastic®- 488	2.0mm DFT
3. Top coat	Sikalastic®- 701	0.22mm DFT

SikaRoof® MTC-20 UV application with non-slip addition:



Layer	Product	Required DFT
1. Primer	Sikalastic® Moisture Seal or Sikalastic®- 100 EP Primer	Please refer to PDS of the Primer
2. Base coat	Sikalastic®- 488	2.0mm DFT
3. Top coat	Sikalastic®- 701	0.22mm DFT
3. Aggregate	20-40 mesh aggregate	0.5-1kg/m2
4. Top coat	Sikalastic®- 701	0.22mm DFT

Aggregate:

Aggregate is to applied to the first top coat (Layer 3) immediately after application. Use clean, rounded or semi-angular oven dried quartz sand with a size gradation of 20–40 mesh and a minimum hardness of 6.5 per Moh's scale for pedestrian traffic. Seeding of aggregate means an even light broadcast short of refusal. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to recoat-

ing, back roll aggregate where required.

Composition	Sikalastic®-488: Moisture curing polyurethane Sikalastic®-701: 2 component aliphatic hybrid polyurethane
Colour	Sikalastic®-488: Light Grey Sikalastic®-701: Light Grey (RAL 7035) White (RAL 9016)
Dry film thickness	Sikalastic®- 100 EP Primer: 0.20mm approx Sikalastic®-488: 2.0mm DFT Sikalastic®-701: 0.22mm DFT Total system: Approx. 2.44mm DFT (Approx. 2.8mm DFT if using non-slip additive with additional top coat)

APPLICATION INFORMATION

Ambient air temperature	+5 °C min. / +35 °C max.												
Relative air humidity	5 % r.h. min. / 85 % r.h. max.												
Substrate temperature	+5 °C min. / +60 °C max. ≥3 °C above dew point												
Substrate moisture content	≤4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene sheet).												
Substrate pre-treatment	<table><thead><tr><th>SUBSTRATE</th><th>PRIMER</th></tr></thead><tbody><tr><td>Cementitious substrates</td><td>Sikalastic® -100 EP Primer or Sikalastic® Moisture Seal</td></tr><tr><td>Brick & Stone</td><td>Sikalastic® -100 EP Primer or Sikalastic® Moisture Seal</td></tr><tr><td>Metals</td><td>Sikalastic® -100 EP Primer (subject to adhesion and compatibility tests)</td></tr><tr><td>Paints & Coatings</td><td>Subject to adhesion and compatibil- ity tests</td></tr><tr><td>Single ply membranes</td><td>Consult Sika Technical Department</td></tr></tbody></table>	SUBSTRATE	PRIMER	Cementitious substrates	Sikalastic® -100 EP Primer or Sikalastic® Moisture Seal	Brick & Stone	Sikalastic® -100 EP Primer or Sikalastic® Moisture Seal	Metals	Sikalastic® -100 EP Primer (subject to adhesion and compatibility tests)	Paints & Coatings	Subject to adhesion and compatibil- ity tests	Single ply membranes	Consult Sika Technical Department
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Single ply membranes	Consult Sika Technical Department												
Waiting time to overcoating	Please refer to individual data sheets of primer, Sikalastic® -488 and Sikalastic® -701 for overcoat time frames												

PRODUCT INFORMATION

Packaging	Please refer to individual Product Data Sheet
Shelf life	Please refer to individual Product Data Sheet
Storage conditions	Please refer to individual Product Data Sheet

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.

IMPORTANT CONSIDERATIONS

- Do not apply SikaRoof® MTC on substrates with rising moisture.
- SikaRoof® MTC is not suitable for permanent water immersion.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising air.
- Do not dilute Sikalastic®-488 & Sikalastic®-701 with any solvent.
- Do not use SikaRoof® MTC for indoor applications.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Do not apply SikaRoof® MTC directly on insulation boards.
- Volatile bituminous materials may stain and or soften below the coating.
- Do not apply cementitious products (e.g. tile mortar) directly onto SikaRoof® MTC

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

The surface must be sound, of sufficient strength, clean, dry and free of dirt, oil, grease and other contamination. Depending on the material the substrate must be primed and mechanically cleaned. Grinding may be necessary to level the surface. Suitable substrates are such as: concrete, existing coatings (after adhesion and compatibility testing is confirmed), metal, brickwork, asbestos cement, ceramic tiles.

APPLICATION

Prior the application of SikaRoof® MTC-20 UV the priming coat if used must have cured tack-free. For the Waiting Time / Overcoating please refer to the PDS of the appropriate primer. Damageable areas (handrails etc.) have to be protected with tape or plastic wrapping. Please note, always begin with details prior to the installation of the horizontal surface.

1. Apply first coat of Sikalastic®-488. Please refer to the Sikalastic®-488 product data sheet for application rates and drying times; 3 coats will be required to achieve the DFT of 2.0mm
2. Apply the top coat of Sikalastic®-701. If a non-slip finish is required, two coats will need be installed with the non-slip finish being broadcast into the first coat of Sikalastic®-701. Once first coat is cured, the coating should be broomed/vacuummed of excess material and the subsequent top coat applied within 24 hours.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

LOCAL RESTRICTIONS

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