

## SYSTEM DATA SHEET

# SikaRoof® MTC-12 UV

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

### DESCRIPTION

SikaRoof® MTC-12 UV is a cold-applied, seamless, highly elastic and UV-stable moisture triggered polyurethane roof waterproofing system consisting of Sikalastic®- 488 and Sikalastic®-622 Excel Top PLUS. Suitable for use in hot and tropical climatic conditions.

### USES

SikaRoof® MTC-12 UV may only be used by experienced professionals.

SikaRoof® MTC-12 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

- One component - no mixing, easy and ready to use
- UV resistant - good resistance to yellowing
- Cold applied - requires no heat or flame
- Seamless roof waterproofing membrane - easy to detail
- Fast curing - free from resin damage almost immediately on application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- Good adhesion to most substrates - see primer chart
- Vapour permeable - allows substrate to breathe
- Strong resistance to common atmospheric chemicals

### APPROVALS / CERTIFICATES

AS 4654.1-2012: Sikalastic® 488 (base coat membrane)

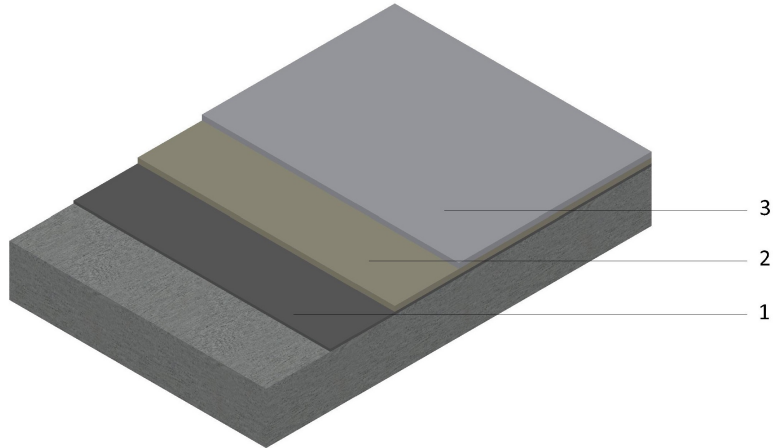
AS 4654.1-2012: Sikalastic® 622 Excel Top

PLUS (top coat membrane)

# SYSTEM INFORMATION

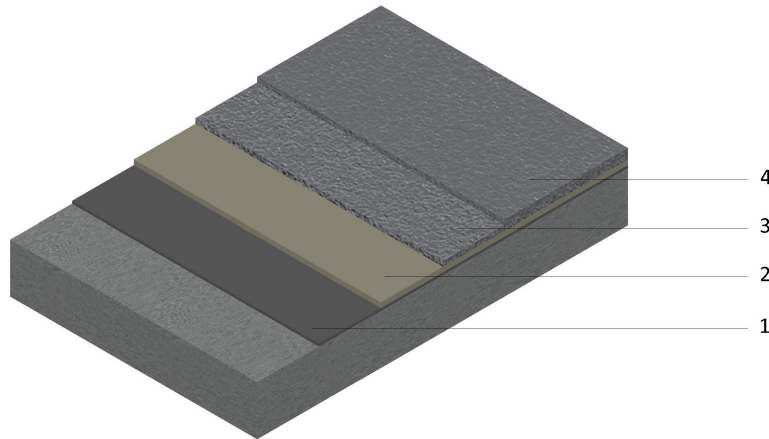
## System structure

Standard SikaRoof® MTC-12 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	1.2mm DFT
3. Top coat	Sikalastic® -622 Excel Top PLUS	0.35mm DFT

SikaRoof® MTC-12 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	1.2mm DFT
3. Top coat	Sikalastic® -622 Excel Top PLUS	0.35mm DFT
3. Aggregate	20-40 mesh aggregate	0.5-1kg/m2
4. Top coat	Sikalastic® -622 Excel Top PLUS	0.35mm 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 recoating, back roll aggregate where required.

<b>Composition</b>	Sikalastic®-488: Moisture curing polyurethane Sikalastic®-622 Excel Top PLUS: Aliphatic moisture curing polyurethane
<b>Colour</b>	Sikalastic®-488: Light Grey Sikalastic®-622 Excel Top PLUS: Grey (RAL 7040)
<b>Dry film thickness</b>	Sikalastic®-488: 1.2mm DFT Sikalastic®-622 Excel Top PLUS: 0.35mm DFT Total system: 1.55mm DFT

## APPLICATION INFORMATION

<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.
<b>Relative air humidity</b>	5 % r.h. min. / 85 % r.h. max.
<b>Substrate temperature</b>	+5 °C min. / +60 °C max. ≥3 °C above dew point
<b>Substrate moisture content</b>	≤4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).
<b>Waiting time to overcoating</b>	Please refer to individual data sheets of primer, Sikalastic® -488 and Sikalastic® -622 Excel Top PLUS for overcoat time frames.

## 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®-622 Excel Top PLUS 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-12 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; 2 coats will be required to achieve the DFT of 1.2mm

2. Apply the top coat of Sikalastic®-622 Excel Top PLUS. 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®-622 Excel Top PLUS. 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.

**Sika Australia Pty Limited**

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48

**System Data Sheet**

SikaRoof® MTC-12 UV

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