

SYSTEM DATA SHEET

SikaRoof® MTC-12

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

DESCRIPTION

SikaRoof® MTC-12 is a cold-applied, seamless, highly elastic and UV-stable moisture triggered polyurethane roof waterproofing system consisting of Sikalastic®-601 BC, Sika® Reemat Premium and Sikalastic®-621 TC.

USES

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

SikaRoof® MTC-12 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

- Proven technology over 25 year track record
- One component no mixing, easy and ready to use
- UV resistant
- Cold applied requires no heat or flame
- Seamless roof waterproofing membrane
- Compatible with Sika® Reemat Premium- easy to detail
- Fast curing free from resin damage almost immediately on application
- High elastic and crack-bridging retains flexibility even at low temperatures
- High root resistance
- Easily re-coated when needed no stripping required
- Good adhesion to most substrates- see primer chart
- Vapour permeable allows substrate to breathe
- Strong resistance to common atmospheric chemicals

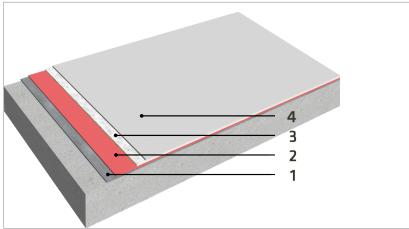
APPROVALS / CERTIFICATES

Liquid applied roof waterproofing kit according to ETAG 005, ETA-09/0139 issued by technical assessment body British Board of Agrément (BBA), Declaration of Performance 44125185, provided with the CE marking

SYSTEM INFORMATION

System structure

Sikalastic®-601 BC applied in 1 coat, reinforced with Sika® Reemat Premium and sealed with 1 coat Sikalastic®-621 TC



Layer	Product	Consumption
1. Primer	please refer to sub-	please refer to PDS of
	strate pre-treatment	the Primer
2. Base coat	Sikalastic®-601 BC	$\geq 0.75 \text{ l/m}^2 (\geq 1.0 \text{ kg/m}^2)$
3. Reinforcement	Sika® Reemat Premium	-
4. Top coat	Sikalastic®-621 TC	$\geq 0.75 \text{ l/m}^2 (\geq 1.0 \text{ kg/m}^2)$

Note: These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage.

Composition	Moisture-triggered aliphatic polyurethane
Colour	Sikalastic®-601 BC: Oxide red (RAL 3011) Sikalastic®-621 TC: Slate grey (RAL 7015)
Dry film thickness	~1.2 mm

TECHNICAL INFORMATION

Tensile strength	~9 N/mm²		(EN ISO 527-3)	
Tear strength	~26 N/mm²	(EN ISO 6383-1:2004)		
Tensile strain at break	~38 %		(EN ISO 527-3)	
Reaction to fire	Euroclass F		(EN 13501-1)	
Chemical resistance	Salt spray	1000 hours continuous exposure	(ASTM B117)	
	Prohesion testing	1000 hours cyclic exposure	(ASTM G85-94: Annex A5)	
	fuel oil, white spirit, ac and alkalis. Some low r	vide range of reagents includin id rain, detergents and modera nolecular weight alcohols can s service for specific information	ite solutions of acids often the material.	
Solar reflectance index	≥ 109*		(ASTM 1980)	
	* All values refer to the initial (pr 9016).	operly cured, non-weathered) status of Sika	llastic®-621 TC white (RAL	
Permeability to water vapour	μ: ~4 100		(EN ISO 1931 Method B)	
Water-vapour transmission rate	~6.6 g/m²/day		(EN ISO 1931 Method B)	

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APPLICATION INFORMATION

	% r.h. max.					
+5 °C min / +60 °C			5 % r.h. min. / 85 % r.h. max.			
+5 °C min. / +60 °C max.						
≥3 °C above dew p	oint					
≤4 % pbw moisture content.						
Test method: Sika®-Tramex meter						
No rising moisture according to ASTM (Polyethylene-sheet).						
Ambient conditions		Minimum waiting time				
+5 °C / 50 % r.h.		18 hours				
+10 °C / 50 % r.h.		8 hours				
+20 °C / 50 % r.h.		6 hours				
After four days the surface must be cleaned and primed with Sika® Reacivation Primer before continuing. Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.						
Ambient condi-	Rain resistance	Touch dry	Full cure			
tions		•				
+5 °C / 50 % r.h.	10 minutes*	8–12 hours	16–24 hours			
+10 °C / 50 % r.h.	10 minutes*	4 hours	8–12 hours			
+20 °C / 50 % r.h.	10 minutes*	3 hours	6–8 hours			
/ / / / / / / / / / / / / / / / / /	≤4 % pbw moistur Test method: Sika' No rising moisture +5 °C / 50 % r.h. +10 °C / 50 % r.h. +20 °C / 50 % r.h. After four days the ivation Primer bef Note: Times are a conditions particu Ambient condi- tions +5 °C / 50 % r.h. +10 °C / 50 % r.h.	≤4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to AST Ambient conditions +5 °C / 50 % r.h. +10 °C / 50 % r.h. +20 °C / 50 % r.h. After four days the surface must be ivation Primer before continuing. Note: Times are approximate and w conditions particularly temperature Ambient conditions +5 °C / 50 % r.h. +10 °C / 50 % r.h. +10 °C / 50 % r.h. +20 °C / 50 % r.h. +20 °C / 50 % r.h. 10 minutes* 10 minutes*	≤4 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-state of the properties of the provided HTML of the provided HTM			

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®-601 BC & Sikalastic®-621 TC 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. Instead use Sikalastic® Carrier between insulation board and SikaRoof® MTC.
- Volatile bituminous materials may stain and or soften below the coating.
- Areas with high movement, irregular substrates, or timber based roof decks require a complete layer of Sikalastic® Carrier.
- 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 or mechanically cleaned. Grinding may be necessary to level the surface. Suitable substrates are such as: concrete, bituminous felts and coatings, metal, brickwork, asbestos cement, ceramic tiles, wooden substrates.



APPLICATION

Prior the application of SikaRoof® MTC-12 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®-601 BC. Work only so far in advance that the material stays liquid
- 2. Roll in the Sikalastic® Reemat. Overlap the Reemat a minimum 5 cm and ensure overlaps are sufficiently wet to bond both layers. The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage.
- After the coat is dry enough to walk on, seal the roof area with second coat of Sikalastic®-621 TC.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Thinner S 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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