

PRODUCT DATA SHEET

Sikalastic®-601 BC

HIGH PERFORMANCE, ONE-COMPONENT, LIQUID APPLIED POLYURETHANE WATER-PROOFING MEMBRANE BASE COAT



DESCRIPTION

Sikalastic®-601 BC is a one-component, cold-applied, seamless, highly elastic, moisture-triggered polyurethane Base Coat (BC) designed to provide easy application and a durable solution as part of the SikaRoof® MTC systems.

USES

Sikalastic®-601 BC may only be used by experienced professionals.

- Base Coat for SikaRoof® MTC 12,15, 18, 22 in both new construction and refurbishment projects
- For cold and warm roof build-ups
- For roofs displaying complex detail areas, even when accessibility is limited
- For cost efficient life cycle extension of failing roofs
- Base Coat for Sika SolaRoof® MTC 12, 15, 18, 22 in combination with Sikalastic®-621 SR as highly reflective roof waterproofing system for excellent cool roof characteristics and photovoltaic panels.

CHARACTERISTICS / ADVANTAGES

- Proven technology - over 25 year track record
- One component – no mixing, easy and ready to use
- Cold applied - requires no heat or flame
- Seamless roof waterproofing membrane
- Compatible with Sika® Reemat Premium - easy to detail
- Fast curing - free from rain damage almost immediately on application
- High elastic and crack-bridging - retains flexibility even at low temperatures
- High root resistance
- Easily recoated 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

As part of SikaRoof® MTC Systems

- 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 0209152050000000051184, provided with the CE marking
- Root resistance approval according FLL (Institute of Horticulture)
- Reaction to fire according to EN 13501-1: Euroclass E
- External fire performance according to EN 13501-5:
 - BRoof (t1) - BRoof (t4) (SikaRoof® MTC 15, non-combustible substrates)
 - BRoof (t1)- BRoof (t4) (SikaRoof® MTC 18, build up roofs)
 - BRoof (t1) (SikaRoof® MTC 22, Build up roofs)

PRODUCT INFORMATION

Chemical base	One-component, moisture-triggered aliphatic Polyurethane
Packaging	5 l (~6.8 kg) metal pail 15 l (~20.4 kg) metal pail

Colour	Oxide red (RAL 3011)
Shelf life	9 months from date of production
Storage conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0 °C and +25 °C. Higher storage temperatures may reduce shelf life of product. Reference shall also be made to the storage recommendations within the safety data sheet.
Density	~1.36 kg/l (+23 °C) (EN ISO 2811-1)
Solid content by weight	~84 % (+23 °C / 50 % r.h.)
Solid content by volume	~78 % (+23 °C / 50 % r.h.)

TECHNICAL INFORMATION

Chemical Resistance	Salt spray	1000 hours continuous exposure	(ASTM B117)
	Prohesion testing	1000 hours cyclic exposure	(ASTM G85-94: Annex A5)
Strong resistance to a wide range of reagents including paraffin, petrol, fuel oil, white spirit, acid rain, detergents and moderate solutions of acids and alkalis. Some low molecular weight alcohols can soften the material. Contact Sika technical service for specific information.			
Service Temperature	-30 °C min. / + 80 °C max.		

SYSTEMS

System Structure	Please refer to System Data Sheets of SikaRoof® MTC Systems
System Performance	Please refer to System Data Sheets of SikaRoof® MTC Systems

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	Please refer to System Data Sheets of SikaRoof® MTC Systems	
Pot Life	Sikalastic®-601 BC is designed for fast curing. High temperatures combined with high air humidity will accelerate the curing process. Thus, material in opened containers should be applied immediately. In opened containers, the material will form a film after 1 hour approx. (+20 °C / 50 % r.h.).	
Waiting Time / Overcoating	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® Reactivation Primer before continuing.		
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.		
Applied Product Ready for Use	Please refer to System Data Sheets of SikaRoof® MTC Systems	

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.

For detailed information regarding substrate preparation and primer chart please refer to Method Statement No. 850 94 01 "SikaRoof® MTC Systems".

MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Sikalastic®-601 BC gently but thoroughly in order to achieve a uniform colour. Stirring gently will minimise air entrainment.

APPLICATION

Prior the application of Sikalastic®-601 BC 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.
3. The roller may require only a little extra material to keep wetted but no further significant material needs to be added at this stage.
4. After the coat is dry enough to walk on, seal the roof area with second coat of Sikalastic® 621.
5. For SikaRoof MTC 22 apply a third coat of Sikalastic® 621

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

FURTHER DOCUMENTS

For detailed information regarding substrate preparation, primer chart and application method please refer to Method Statement of SikaRoof® MTC Systems No. 850 94 01.

LIMITATIONS

- Do not apply Sikalastic®-601 BC on substrates with rising moisture.
- Sikalastic®-601 BC 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 with any solvent.
- Do not use Sikalastic®-601 BC for indoor applications.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Do not apply Sikalastic®-601 BC directly on Sikalastic® Insulation boards. Instead use Sikalastic® Carrier between Sikalastic® Insulation board and Sikalastic®-601 BC.
- 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 Sikalastic®-601 BC.

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.

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.

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®-601 BC is <500 g/l VOC for the ready to use product.

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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