

PRODUCT DATA SHEET

Sikalastic®-614

ONE-COMPONENT, LIQUID APPLIED POLYURETHANE WATERPROOFING MEMBRANE



DESCRIPTION

Sikalastic®-614 is a one-component, cold applied, moisture-triggered polyurethane membrane. It cures to form a seamless and durable waterproofing solution for exposed roof areas and structures. Suitable for hot and tropical climatic conditions.

USES

Sikalastic®-614 may only be used by experienced professionals.

- For roof waterproofing solutions in both new construction and refurbishment projects
- For roofs displaying complex detail areas, even when accessibility is limited
- For cost efficient life cycle extension of failing roofs
- For waterproofing underneath tiles bonded with adhesives on balconies and terraces

CHARACTERISTICS / ADVANTAGES

- Single component no mixing, easy and ready to use
- Cold applied requires no heat or flame
- Seamless membrane
- Compatible with Sika® Reemat Premium easy to detail
- Easily recoated when needed no stripping required
- Economic provides a cost efficient life cycle extension of failing roofs
- Vapour permeable allows substrate to breathe
- Elastic retains flexibility even at low temperatures
- Good adhesion to most substrates see table
- Fast Curing free from rain damage almost immediately on application

APPROVALS / CERTIFICATES

- Liquid applied roof waterproofing kit according to ETAG 005, ETA 13 / 0456 issued by Technical Assessment Body British Board of Agrément (BBA), Declaration of Performance 66458974, and provided with the CE marking.
- Liquid-applied water impermeable product for external installations beneath ceramic tiling according to DIN EN 14891: 2012 07, Declaration of Performance 41363963, assessed by notified laboratory 0761, and provided with the CE marking.
- External fire performance according to ENV 1187:
 BRoof (t1) / Broof (t4)
- Reaction to fire according to EN13501 1:
 Euroclass E

PRODUCT INFORMATION

Composition	One-component, moisture-triggered aromatic polyurethane	
Packaging	15 L (~20.7 kg) metal pail 5 L (~7.1 kg) metail pail	
Colour	White (RAL 9010), grey (RAL 7045), green (RAL 7009), other colours available upon request	

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Shelf life	9 months from date o	9 months from date of production		
Storage conditions	aged sealed packaging +25 °C. Higher storage tempe	stored properly in original, ur g in dry conditions at tempera ratures may reduce shelf life e made to the storage recom	of product.	
Density	~1.45 kg/l (23 °C)		(EN ISO 2811-1)	
Solid content by weight	~79 % (+23 °C / 50 % r	·.h.)		
Solid content by volume	~68 % (+23 °C / 50 % r	r.h.)		
TECHNICAL INFORMAT	TION			
Tensile Strength	Not Reinforced	Reinforced	(EN ISO 527-3)	
	~4.5 N/mm²	~14 N/mm²		
Tensile Resistance	550 N, reinforced			
Elongation at Break	Not Reinforced	Reinforced	(EN ISO 527-3)	
	~150 %	~20 %		

-20 °C min. / +80 °C max.

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Service Temperature



SYSTEMS

System Structure

Roof Coating*

Sikalastic®-614 is applied in 1 or 2 coats

Total consumption	≥ 1.0 l/m2 (≥ 1.45 kg/m2)
Dry film thickness	≥ 0.85 mm

^{*}For partial reinforcement Sikalastic® Fleece-120 or Sikalastic® Flexitape Heavy is applied at areas with high movement, irregular substrate or to bridge cracks, joints and seams on the substrate as well as for details. On bitumen felt a fully reinforced roof waterproofing system has to be applied. For primer, please refer to the Substrate Pre-Treatment table below.

Reinforced Roof Waterproofing

Sikalastic®-614 is applied in one coat reinforced with Sika® Reemat Premium and sealed with a further coat of Sikalastic®-614

Layer	Product	Consumption
1. Primer	Please refer to sub-	Please refer to PDS of
	strate pre-treatment	the Primer
2. Base coat	Sikalastic®-614	≥ 1.0 l/m ²
		(≥ 1.45 kg/m ²)
3. Reinforcement	Sika® Reemat Premium	-
4. Top coat	Sikalastic®-614	≥0.75 l/m2 (≥ 1.09 kg/m²)

Waterproofing below tiles bonded with tile adhesive

Sikalastic®-614 is applied on concrete or screed in one coat reinforced with Sika® Reemat Premium, sealed with a further coat of Sikalastic®-614, followed with one more coat Sikalastic®-614 broadcasted with quartz sand.

Layer	Product	Consumption
Primer	Sika® Concrete Primer	Please refer to PDS of
	or	the Primer
	Sika® BondingPrimer	
Base coat	Sikalastic®-614	≥ 1.0 l/m ²
		(≥ 1.45 kg/m²)
Reinforcement	Sika® Reemat Premium	-
Top coat	Sikalastic®-614	≥ 0.75 l/m2
		(≥ 1.09 kg/m2)
Bonding bridge	Sikalastic®-614 broad-	≥ 0.2 l/m ²
	casted with 2 kg/m ²	(≥ 0.29 kg/m²)
	quartz sand (ø 0.4 - 0.7	
	mm)	
Tile adhesive	Refer to Sika Technical	Please refer to PDS of
	report	the tile adhesive

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.

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +40 °C max.
Relative Air Humidity	5 % r.h. min. / 85 % r.h. max.
Substrate Temperature	+5 °C min. / +60 °C max. Min. 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	Substrate		Primer	
	Cementitious sub	strates	Sika® Concrete	Primer
	Brick and Stone			Primer or Concrete necessary on porous strates.
	Ceramic tiles (ung crete slaps	glazed), and con-	Sika® Concrete	
	Bituminous felt Only required for high re applications (Sikalastic® N Primer). Fully reinforced only.		Sikalastic [®] Metal	
	Bituminous coati	ngs	applications (S	for high reflectivity Sikalastic® Metal reinforced system
	Metals Ferrous or galvan copper, aluminiu less steel	· ·		tal Primer
	Wooden substrat	es	complete laye For small expo	roof decks require a r of Sikalastic® Carrier. osed timber sections crete Primer or Sika er.
	Paints	Subject to adhesion and compa ity tests		
	Existing SikaRoof	SikaRoof® MTC System Sika® Reactivation Primer		tion Primer
	For the consumption rates and waiting time / overcoating please refer to the Product Data Sheet of the ap propriate cleaner and primer. Other substrates must be tested for their compatibility. If in doubt, apply a test area first.			
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APPLICATION INSTRUCTIONS

MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Sikalastic®-614 gently but thoroughly in order to achieve a uniform colour. Stirring gently will minimise air entrainment.

APPLICATION

conditions particularly temperature and relative humidity.

Prior the application of Sikalastic®-614 the priming coat if used must have cured tack-free. For the Waiting Time / Overcoating please refer to the Product Data Sheet of the appropriate primer. Damageable areas (handrails, etc) have to be protected with tape or plastic wrapping.

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Roof Coating:

Sikalastic®-614 is applied in two coats. Prior to the application of a 2nd coat the indicated waiting time in the table Waiting Time / Overcoating shall be allowed. Roof coatings may need partial reinforcement over areas of stress or predictable movement for example joints overlaps detailing etc. Use Strips or sections of Sika® Reemat Premium for reasonably sound surfaces for example, asbestos cement etc. For joints with moderate movement, example Metal Sheeting use Sika® Flexitape Heavy incorporating bond-break.

Reinforced Roof Waterproofing:

Sikalastic®-614 is applied in combination with Sika® Reemat Premium.

- Apply first coat of approximately 1 l/m² of Sikalastic®-614. Work only so far in advance that the material stays liquid.
- 2. Roll in the Sikalastic® Reemat Premium. Overlap it a minimum 5 cm and ensure overlaps are sufficiently wet to bond both layers.
- 3. Overroll the treated area until the Sikalastic® Reemat Premium is completely embedded in the Base coat. 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®-614 at a minimum 1 l/m² per coat.

Please note, always begin with details prior starting with waterproofing the horizontal surface. For details follow step 1-4.

Waterproofing below tiles:

For waterproofing below tiles, follow the instruction for reinforced roof waterproofing system. After the last coat of the waterproofing system has been cured, apply another coat of Sikalastic®-614 broadcasted with quartz sand (Ø 0.4 -0.7 mm) as bonding bridge. Remove excessive sand after the liquid applied membrane has been cured. For application of the tile adhesive, please refer to the product data sheet of the tile adhesive.

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.

IMPORTANT CONSIDERATIONS

- Do not apply Sikalastic®-614 on substrates with rising moisture.
- Sikalastic®-614 is not suitable for permanent water immersion.
- On substrates likely to exhibit out-gassing, apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising air.
- Do not dilute Sikalastic®-614 with any solvent.

- Do not use Sikalastic®-614 for indoor applications.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Do not apply Sikalastic®-614 directly on Sikalastic® Insulation boards. Instead use Sikalastic® Carrier between Sikalastic® Insulation board and Sikalastic®-614.
- 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.
- For professional use only.
- Sikalastic®-614 may exhibit slight chalking at the surface do not use run off water for live fish tanks, etc.
- Volatile bituminous materials may stain and or soften below the coating.
- Low melting point bituminous materials may need priming – using a darker shade also helps hide any staining from the volatiles.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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.



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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