

BUILDING TRUST

PRODUCT DATA SHEET Sikalastic[®]-560

Economical liquid applied roof waterproofing solution based on Sika Co-Elastic Technology (CET) CE

DESCRIPTION

Sikalastic[®]-560 is a cold-applied, one-component waterborne liquid applied waterproofing membrane, highly elastic and UV resistant.

USES

- For roof waterproofing solutions in both new construction and refurbishment projects
- For roofs with many details and complex geometry when accessibility is limited
- For cost efficient life cycle extension of failing roofs
- For reflective coating to enhance energy efficiency by reducing cooling costs

FEATURES

- One-component ready to use
- Cold applied requires no heat or flame
- Seamless waterproofing membrane
- UV resistant and UV stable
- Highly elastic and crack-bridging
- Easily recoated when needed no stripping required
- Economic provides a cost efficient life cycle extension for failing roofs
- Low VOC emitting water-based coating
- Excellent adhesion on porous and non-porous substrates
- Water vapour permeable allows the substrate to breathe

SUSTAINABILITY

- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- Conformity with LEED v2009 SSc 7.2 (Option 1): Heat Island Effect - Roof

CERTIFICATES AND TEST REPORTS

- Liquid applied roof waterproofing kit according to ETAG 005, ETA-12/0308 issued by technical assessment body Instituto de ciencias de la construction Eduardo Torroja, Declaration of performance 99240033, provided with the CE marking
- Fulfils initial solar reflectance requirements acc. Energy Star (0.820)
- Meets requirements of external fire performance ENV 1187 B_{Roof} (T1) on non-combustible substrates

PRODUCT INFORMATIO	Ν
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Composition	Polyurethane modified acrylic dispersion
Packaging	20.0 kg metal pails
Colour	Grey, terracotta, red and white (Energy Star)
Shelf life	18 months from date of production

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Storage conditions	The product must be stored aged sealed packaging in dr and +30 °C.Higher storage t Reference shall also be mad safety data sheet.	l properly y conditio emperatu le to the s	r in original, unopen ons at temperatures ures may reduce she storage recommend	ed and undam- between +5 °C If life of product. lations within the
Density	~1.35 kg/lt (+23 °C)			(EN ISO 2811-1)
Solid content by mass	~65 % (at +23 °C / 50 % r.h.)		
Solid content by volume	~48 % (at +23 °C / 50 % r.h.)		
TECHNICAL INFORMATION				
Tensile strength	Not reinforced	alastic [®] ~1.5 N/mm ² ~12.0 N/mm ²		(DIN 53504)
	Reinforced with Sikalastic [®] Fleece-120			
	Reinforced with Sikalastic [®] Reemat Premium	~4.0 – 5	.0 N/mm²	
Tensile strain at break	Not reinforced Reinforced with Sikalastic [®] Fleece-120 Reinforced with Sikalastic [®] Reemat Premium	$\frac{^{\sim}350\%}{^{\sim}40-60}$)%	(DIN 53504)
Solar reflectance	0.82 ¹⁾ 1)All values refer to the initial (properly	cured, non-w	veathered) status of Sikalast	ic®-560 white.
Thermal emittance	0.93 ¹⁾ 1)All values refer to the initial (properly cured, non-weathered) status of Sikalastic [®] -560 white.			
Solar reflectance index	102 ¹⁾ 1)All values refer to the initial (properly cured, non-weathered) status of Sikalastic [®] -560 white.			
Service temperature	With FleeceWithout Flee-10 °C min. / +80 °C max5° C min. / +		Without Fleece -5° C min. / +80 °C	max.
APPLICATION INFORMATIO	N			
Ambient air temperature	Minimum Maximum		+8 °C +35 °C	
Relative air humidity	≤80 % r.h.			
Dew point	Beware of condensation. The substrate and uncured membrane must be at least 3 °C above dew point to reduce the risk of condensation or bloom- ing of the membrane finish.			
Substrate temperature	Minimum		+8 °C	
	Maximum		+35 °C	
Substrate moisture content	The product can be applied part by weight. The substra The following test methods	on substr te must b can be us	rates with a moistur e visibly dry with no sed to determine th	e content of ≤6 % standing water. e substrate mois-

Sika[®]-Tramex meter
 CM measurement

ture content:

- CM-measurement
- Oven-dry-method

No rising moisture according to ASTM (Polyethylene-sheet).

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Substrate pre-treatment	Substrate	Primer	Consumption (kg/m ²)		
	Cementitious substrate	Sikalastic [®] -560 diluted	~0.3		
	Brick and stopp	_ with 10 % water	~0.2		
	DITCK ditu Stolle	with 10 % water	0.5		
	Ceramic tiles (unglazed) Sikalastic [®] -560 diluted	~0.3		
	with 10 % water				
	Bituminous felt	Only required for high reflectivity applications (Sikalastic [®] Metal Primer N)	~0.2		
		* Fully reinforced sys- tem only			
	Bituminous coatings	Only required for high reflectivity applications (Sikalastic® Metal Primer N)	~0.2		
		* Fully reinforced sys-			
	Metals	Sikalastic [®] Metal Primer	~0.2		
	Wooden substrates	Timber based roof decks require a com- plete layer of Sikalastic®	~0.3		
		Carrier. For exposed timber upstands, use Sikalastic [®] -560 diluted with 10 % water			
	Paints	Subject to adhesion and compatibility test			
	* Sikalastic® Metal Primer prevents migration of bituminous volatiles and improves long-term reflectivity.				
	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. For the Waiting Time / Overcoating, please refer to the PDS of the appro- priate cleaner and primer. Other substrates must be tested for their com-				
	patibility. If in doubt, a	oply a test area first.			
Waiting time to overcoating	Waiting time with Sikalastic® Fleece	Waiting time without Sikalastic [®] Fleece	Ambient condition		
	24 hours 6 hours		+20 °C / 50 % r.h.		
	12 hours	4 hours	+30 °C / 50 % r.h.		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				
Applied product ready for use	Touch dry Rair	resistant Full cure	Ambient condi- tion		
	~2 hour ~8 h	ours ~4 days	+20 °C / 50 % r.h.		
	~1 hour ~4 h	ours ~2 days	+30 °C / 50 % r.h.		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.				



System structure

Roof Coating*

Sikalastic[®]-560 is applied in 2 or 3 coats

Total consumption	≥0.9 – 1.4 kg/m ² (≥0.6 – 1.0 lt/m ²)
Dry film thickness	≥0.3 – 0.5 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 bituminous felt, a fully reinforced roof waterproofing system has to be applied.

For primer, please refer to the Substrate Pre-Treatment table.

Reinforced Roof Waterproofing

Sikalastic[®]-560 is applied in 1 coat, reinforced with Sikalastic[®] Fleece-120 or Sika[®] Reemat Premium and sealed with 1 - 2 coats of Sikalastic[®]-560

Layer	Product	Consumption
1. Primer	please refer to sub-	please refer to sub-
	strate pre-treatment	strate pre-treatment
2. Base coat	Sikalastic [®] -560	≥1.0 – 1.5 kg/m ² (≥0.75
		– 1.1 lt/m²)
3. Reinforcement	Sikalastic [®] Fleece-120 or	-
	Sika [®] Reemat Premium	
4. Top coats	Sikalastic [®] -560 applied	≥1.1 – 1.3 kg/m ² (≥0.80
	in 1-2 coats	– 0.95 lt/m²)

Note: Do not apply more than 0.75 kg/m² of Sikalastic[®]-560 per coat for layers without reinforcement.

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.

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 Sikalastic[®]-560 on substrates with rising moisture
- Sikalastic[®]-560 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
- Ensure that temperature does not drop below 8 °C and that relative humidity does not exceed 80 % until the membrane has fully cured
- Sikalastic[®]-560 should not be applied on roofs subjected to long-term ponding water
- Sikalastic[®]-560 should not be applied on roofs subjected to ponding water with subsequent periods of frost. In cold climatic zones for roofing structures with a pitch of less than 3 % appropriate measures must be considered
- Sikalastic[®]-560 applied on roofs subjected to longterm freezing at temperature around the minimum service temperature of -10 °C should always be reinforced with Sikalastic[®] Fleece-120 in order to guarantee sufficient crack-bridging ability

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- Do not apply Sikalastic[®]-560 directly on insulation boards. Instead, use a separation layer like Sikalastic[®] Carrier between insulation board and Sikalastic[®]-560
- Areas with high movement, irregular substrates, or timber based roof decks require a complete layer of Sikalastic[®] Carrier
- Sikalastic[®]-560 is not recommended for pedestrian traffic. In case pedestrian traffic is unavoidable, Sikalastic[®]-560 shall be covered with appropriate elements such as tiles, stone plates or wooden panels
- Do not apply cementitious products (e.g. tile mortar) directly onto Sikalastic[®]-560. Use an alkaline barrier, for example kiln dried quartz sand
- The fire resistance performance has been tested internally according to ENV 1187 B_{Roof} (T1)

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.



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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 the relevant Method Statement.

MIXING

Prior to application, stir Sikalastic[®]-560 thoroughly for 1 minute in order to achieve a homogeneous mixture. Over mixing must be avoided to minimise air entrainment.

APPLICATION

Prior to the application of Sikalastic[®]-560, 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 (door frame) have to be protected with an adhesive tape **Roof Coating:** Sikalastic[®]-560 is applied in two or three coats. Prior to the application of a 2nd coat, the indicated waiting time in the table above shall be allowed. **Roof Waterproofing:** Sikalastic[®]-560 is applied in combination with Sikalastic[®] Fleece 120 or Sika[®] Reemat Premium.

- Apply first coat of approx. 0.75 kg/m² (for non-absorbing substrates) – 1.00 kg/m² (for absorbing substrates) of Sikalastic[®]-560 on a length of approx. 1m
- Roll in the Sikalastic[®] Fleece-120 or Sika[®] Reemat Premium and ensure that there are no bubbles or creases. Overlapping of the fleece minimum 5 cm
- Apply the second coat of approx. 0.25 kg/m² 0.5 kg/m² right into the wet fleece to achieve the required film thickness. The entire application shall happen while Sikalastic[®]-560 is still liquid, wet on wet
- 4. Repeat step 1 3 until the roof area is waterproofed
- After the two coats are dry, seal the roof area with one or more additional coats of Sikalastic[®]-560 (≥0.5 kg/m² per coat)

Please note, always begin with details prior to starting with waterproofing the horizontal surface. For detailed information regarding application meth-

od, please refer to the relevant Method Statement.

Sika Hellas ABEE

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CLEANING OF EQUIPMENT

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

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.

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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