

PRODUCT DATA SHEET

Sikalastic®-595

FIRE RESISTANCE WATERPROOFING MEMBRANE

DESCRIPTION

Sikalastic®-595 is a fire resistance high performance, multi-layer, liquid applied modified PU waterproofing system that allows for high build up thickness to overcome unevenness of roof surfaces, forming a flexible and yet tough waterproofing membrane with enhanced durability. Sikalastic®-595 can be installed using a special spray equipment, or roller. It is specially formulated to be fast drying, increasing productivity and reducing the risk of membrane being wash out due to suddenly occurrence of rain on site during installation.

USES

- Fire resistance waterproofing for exposed or concealed application.
- External and internal, wall and roof application.

CHARACTERISTICS / ADVANTAGES

- Rapid drying and curing
- Easy to apply and sprayable
- Increases productivity, reduces manpower and time.
- Bridge cracks and remains flexible in harsh weather condition.
- Resistant to ultra violet rays, mould & fungus.
- Fire Resistance
- Available in various colours.

PRODUCT INFORMATION

Chemical Base	Acrylic-PU hybrid
Packaging	20 litres and 5 litres pail
Colour	Standard colours - White & Grey Other colours - colour matching (Refer to your technical representative)
Shelf Life	12 months from the production date
Storage Conditions	The product must be stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 0 °C and +30 °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	~1.35 kg/l
Solid content by weight	~65% (+23 °C / 50 % r.h.)
Solid content by volume	~48 % (+23 °C / 50 % r.h.)

TECHNICAL INFORMATION

Shore A Hardness	Unreinforced	Reinforced	(ASTM D2240:15)
	> 60	> 70	
Tensile Strength	Unreinforced	Reinforced	(ASTM D412-16)
	> 2 N/mm ²	> 12 N/mm ²	
	<i>Elongation at break</i>		
	Unreinforced	Reinforced	(ASTM D412-16)
	> 250%	> 5%	
Tensile Adhesion Strength	Unreinforced		(ASTM D4541: 2017)
	> 1.6 N/mm ²		
Crack Bridging Ability	Unreinforced		(ASTM C836:2011)
	No crack at 2 mm crack width No crack after 10 cycles of opening and closing to 1 mm width		
Water Vapour Transimission	Unreinforced		(ASTM E96/E96 M:16)
	> 26 (g/24h.m ²)		
Reaction to Fire	Fire Propagation Index		(BS476-6)
	1.7		
	Spread of Flame		(BS476-7)
	Class 1		
Behaviour after Artificial Weathering	Unreinforced		(ASTM G154:16 cycle1)
	No cracking, Chalking, Blistering or Peeling, Decay and Contamination after 2000 Hours in the QUV Accelerated Weathering		
Service Temperature	-20 °C min. / +80 °C max.		

SYSTEM INFORMATION

System Structure	Wall Coating*		
	Layer	Product	Consumption
	Primer	Sikalstic® 500 Arylic Primer AP	0.1 - 0.2 L/m ²
	Base coat	Sikalastic®-595 (1-2 Coats)	≥ 0.7 L/m ² / coat
	Top coat	Sikalastic®-595	≥ 0.5 L/m ²
	Roof Coating*		
	Layer	Product	Consumption
	Primer	Sikalstic® 500 Arylic Primer AP	0.1 - 0.2 L/m ²
	1st coat	Sikalastic®-595	0.5L/m ²
	Reinforcement	Davco Sovamesh	N.A
	2nd coat	Sikalastic®-595	≥ 0.7 L/m ²
	3rd coat	Sikalastic®-595	≥ 0.5 L/m ²
	*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 partial reinforcement Sikalastic® 100 SA Tape 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.		
Dry film thickness	0.6 - 1.5 mm depending on the system		

APPLICATION INFORMATION

Product Temperature	+5 °C min. / +40 °C max.	
Ambient Air Temperature	min. 5°C to max. 40°C	
Relative Air Humidity	5 % r.h. min. / 85 % r.h. max	
Substrate Temperature	+5 °C min. / +45 °C max Minimum 3 °C above dew point	
Substrate Moisture Content	≤6 % pbw moisture content. Test method: Sika®-Tramex meter No rising moisture according to ASTM (Polyethylene-sheet).	
Pot Life	Sikalastic®-595 is designed for fast curing. High temperatures combined with low 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 - 1.5 hour approx. (+20 °C / 50 % r.h.)	
Waiting Time / Overcoating	Ambient Conditions	Minimum waiting time
	+20 °C / 50 % r.h	3-4 Hours
	+30 °C / 50 % r.h	1-2 Hours
Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.		
Tack Free Time	0.5 - 2 Hour @ 25°C depend on the coating thickness	
Drying Time	~1 - 4 hours depend on the coating thickness	
Applied Product Ready for Use	~24 hours	

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.

LIMITATIONS

- Do not apply Sikalastic®-595 on substrates with rising moisture.
- Sikalastic®-595 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®-595 with any solvent.
- Do not use Sikalastic®-595 for indoor applications.
- Do not apply close to the air intake vent of a running air conditioning unit.
- Volatile bituminous materials may stain and/or soften below the coating.

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.

Concrete surface

Prime the concrete surface with Sikalastic®-500 Acrylic Primer AP. Refer to manufacturer for suitable primer for any other substrate.

Old existing coatings which are stable and unable to be removed can remain. New concrete must be cure for at least 28 days, with sufficient falls provided to avoid ponding on finished membrane surface.

MIXING

Mixing is not required, however if the product is settled or separated on opening, stir Sikalastic®-595 gently but thoroughly in order to achieve a uniform colour. Stirring gently will minimise air entrainment.

APPLICATION

Prior the application of Sikalastic®-595 the priming coat must have cured tack-free.

Wall Coatings:

Sikalastic®-595 is applied in two - three coats. Prior to the application of a 2nd and 3rd coat the indicated waiting time in the table Waiting Time / Overcoating shall be allowed.

Coatings may need partially reinforcement over areas of stress or predictable movement e.g. joints, overlaps, detailing etc. Use Sikalastic 100 SA Tape or similar for reasonably sound surfaces.

Reinforced Waterproofing:

Sikalastic®-595 is applied in combination with Davco Sovamesh or similar. Over coating of bitumen felt has to be fully reinforced. Apply 1st coat of approximately 0.5 L/m² of Sikalastic®-595.

1. Roll in the Davco Sovamesh and ensure that there are no bubbles or creases. Overlapping of the fleece a minimum 5 cm and ensure overlaps are sufficiently wet to bond.
2. The roller may require only a little extra material to keep wetted with, but no further significant material needs to be added at this stage.
3. After the coat is dry enough to walk on, seal the area with 2nd / 3rd coat of Sikalastic®-595 at approximately 0.5-0.7 L/m².

Please note, always begin with details prior starting with waterproofing the horizontal surface.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C or similar 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 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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