

PRODUCT DATA SHEET

Sikalastic®-598

1-part liquid applied membrane for wall and roof waterproofing

DESCRIPTION

Sikalastic®-598 is a 1-part, PU-modified, water based, elastic, cold applied liquid membrane. It provides a seamless, smooth waterproof finish which is resistant to UV exposure and has elastic properties. It is fast drying for increased productivity and early resistance to rain damage.

USES

- Flat and sloping fully exposed roof structures
- New construction and refurbishment projects
- Waterproofing of external walls
- Waterproofing and renovation of old roof tiles
- Roofs with numerous details such as penetrations, drains, roof lights and complex geometry

PRODUCT INFORMATION

Chemical base	PU-Modified Acrylic
Packaging	25.4Kg in plastic pail
Shelf life	12 months
Storage conditions	Stored properly in dry conditions, temperatures between +5 °C and +30 °C.
Colour	Grey and White
Density	1.27 ± 0.05 kg/l (+23 °C) (ISO 2811-1)

TECHNICAL INFORMATION

Shore A Hardness	> 60	(ASTM D2240:15)
Tensile Strength	> 3 N/mm ²	(ASTM D412-16)
Elongation at Break	> 300 %	(ASTM D412-16)
Crack Bridging Ability	No crack at 2 mm crack width(Unreinforced)	(BS EN 14891:2017)

CHARACTERISTICS / ADVANTAGES

- Early resistance to rain damage
- Fast application increases productivity and reduces installation time
- Applied by brush or roller
- The high build properties allow application over uneven substrates
- Good crack-bridging properties
- Resistant to permanent UV exposure
- Non-toxic and VOC compliant water based coating

SUSTAINABILITY

Singapore Green Label certified

Adhesion in Peel > 1.5 N/mm² (ASTM D7234)

Behaviour after Artificial Weathering No cracking, chalking, blistering, peeling, decay and de-lamination after 2000hours in the QUV accelerated weathering ASTM G154-16

SYSTEM INFORMATION

System Structure

A partially reinforced system must always be used in areas of high movement, irregular substrates or to bridge cracks, joints and seams on the substrate.

Roof coating

Layer	Product	Consumption
Primer	Sikalastic®-500 Acrylic Primer AP or Sikalastic® U-Primer depending on the substrate	~0.2 kg/m ²
1 st coat	Sikalastic®-598	0.7 kg/m ²
2 nd coat	Sikalastic®-598	0.6 kg/m ²

Reinforced roof waterproofing

Layer	Product	Consumption
Primer	Sikalastic®-500 Acrylic Primer AP or Sikalastic® U-Primer depending on the substrate	~0.2 kg/m ²
1 st coat	Sikalastic®-598	0.7 kg/m ²
Reinforcement	Sika® Reemat Premium or Sikalastic® Fleece-80	1 m ²
2 nd coat	Sikalastic®-598	0.6 kg/m ²
3 rd coat	Sikalastic®-598	0.6 kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +40 °C max.
Relative Air Humidity	80 % maximum
Dew Point	Beware of condensation. The substrate and uncured applied roof material must be at least +3 °C above dew point.
Substrate Moisture Content	≤ 6 % moisture content. The substrate must be visibly dry with no standing moisture. No rising moisture according to ASTM(polyethylene-sheet).
Waiting Time / Overcoating	1 - 4 hours depend on the coating thickness and temperature of substrate
Applied Product Ready for Use	~24 hours Time is approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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 CONSIDERATION

- After application, the product must be protected from heavy rain or rain showers until dry to prevent surface damage.
- Do not apply on substrates with rising moisture.
- Ensure product is totally dry and the surface is without pinholes before applying successive coats.
- Remove surface water between coating applications.
- Reinforcement (partial or total) must be used over dynamic cracks and joints.
- Always confirm waiting /overcoating times have been achieved before applying successive coats of products.
- Always begin with detailing applications before full waterproofing application of the horizontal surfaces.
- Do not apply to substrates where significant moisture vapour transmission (out-gassing) will occur during application. This effect may be reduced if Sikalastic®-598 is applied on a falling substrate temperature.
- Do not apply on precast or composite substrate.

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate Preparation Equipment

- Abrasive blast cleaning / planing / scarifying or grinding equipment.
- Manual or mechanical wire brushes.
- High pressure power washer.

For other types of preparation equipment, contact Sika Technical Services

Mixing Equipment

- Electric single or double paddle mixer (300–400 rpm) with spiral paddle

For other types of mixing equipment, contact Sika Technical Services

Application Equipment

- Brush: Soft bristle
- Roller: Solvent resistant

SUBSTRATE PREPARATION

Cementitious substrates

- Substrate must be sound with a minimum tensile adhesion strength of 1.5 N/mm², clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- New concrete must be cured for at least 28 days and have a tensile strength > 1.5 N/mm².
- Substrates must be prepared mechanically using suitable substrate preparation equipment to remove

cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

- High spots can be removed by grinding.
- Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate products from the Sika-floor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikalastic®-598.
- Use Sikalastic-500 Acrylic Primer AP

Bitumen sheet membranes

IMPORTANT

Always use a fully reinforced system over bitumen sheet membranes.

- Make sure the bituminous felt is firmly bonded or mechanically fixed to the substrate and does not contain any badly degraded areas.
- Remove completely or repair any degraded or missing sections.

Treat surfaces as detailed below.

Surface treatment

- Mineral granules and talc finish: Remove loose granules and apply Sikalastic U-Primer over the complete membrane.
- Polyethylene foil finish: Warm foil finish by lightly gas torching.
- Texflamina finish: Must be new.

Bituminous coatings

IMPORTANT

Always use a fully reinforced system over bituminous coatings.

IMPORTANT

Old existing coatings which are not fully bonded to substrate must be removed.

- Bituminous, volatile mastic or old coal tar coatings must be sound, firmly bonded, rigid and with a tack free surface.
 - Remove any loose layers.
 - Thoroughly clean with detergent and water and allow to dry.
 - Apply Sikalastic U-Primer over the complete coating.
- For the other substrates: please contact to Sika Technical Department.

MIXING

- Product is supplied ready for use.
- Before application, mix for at least 1 minute or until the liquid and all the coloured pigment has achieved a uniform colour. Avoid over-mixing to minimise air entrainment.

APPLICATION

Prior to application of Sikalastic®-598, the priming coat must be applied and it must have cured tack-free. Damageable areas (door frame) have to be protected with an adhesive tape.

ROOF COATING

Process: Primer > 1st coat > 2nd coat

Primer

- Pour the mixed Product onto the substrate. The con-

- sumption is specified in product data sheet
- Apply the Product evenly over the substrate with one of the tools specified in Equipment.
- Back roll the surface in two directions at right angles with a fleece roller.
- Apply the first layer of Sikalastic®-598 maintaining a wet edge to ensure a seamless membrane. Once the first layer has cured (refer to waiting time to over-coating section above) apply the second layer of Sikalastic®-598 with one of the tools specified in Equipment.

ROOF WATERPROOFING

Process: Primer > 1st coat > Reinforcement application > 2nd coat

Reinforcement application

- It is recommended to work 1.0 m at a time lengthways applying the 1st coat and embedding the reinforcement.
- Lay the reinforcement onto the wet 1st coat. Make sure reinforcement overlaps are greater than 50 mm.
- Use a short pile roller to roll over the reinforcement and resin. Make sure reinforcement completely embedded and thoroughly saturated

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened 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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Product Data Sheet

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