

PRODUCT DATA SHEET

Sikalastic®-510 AP

(formerly Davco® K10 Sovacryl)

ACRYLIC WATER BASED LIQUID APPLIED MEMBRANE FOR ROOF WATERPROOFING



DESCRIPTION

Sikalastic®-510 AP is a 1-part, acrylic, water based, elastic, cold applied liquid membrane that can be applied directly from the container. Approved by the Eco-labelling authority in Singapore as a sustainable building material with low VOC, it provides a seamless, smooth waterproof finish which is resistant to UV exposure, and has elastic and vapour permeable properties.

USES

- Roof waterproofing for 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

CHARACTERISTICS / ADVANTAGES

- Water-based with low VOC
- Certified Green Label Product
- Resistant to UV exposure
- Mould and fungus resistant
- Good crack-bridging ability
- Vapour permeable
- Easy to apply
- Available in various colours
- Cold applied - requires no heat or flame
- Extends the life of old roofs and walls

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 3427

PRODUCT INFORMATION

Chemical Base	Modified acrylic dispersion	
Packaging	5 kg/pail 25 kg/pail Refer to current price list for packaging variations.	
Colour	Standard colours	
	White	Grey
	Green	Brown Clay
	Brick red	Roof Tile Brown
	Hibiscus Red	Black Pearl
Other colours on request. Applied colours selected from colour charts will be approximate. When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the product finish.		

Shelf Life	12 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.

TECHNICAL INFORMATION

Shore A Hardness	≥ 70	(ASTM D2240:2015(2021))
Tensile Strength	≥ 2.5 N/mm ²	(ASTM D412:16(2021))
Elongation at Break	≥ 180%	(ASTM D412:16(2021))
Tensile Adhesion Strength	≥ 1.5 N/mm ²	(ASTM D7234:2021)
Crack Bridging Ability	> 2 mm Passed	(ASTM C836/C836M:18 (2022))
Resistance to Weathering	No blistering, cracking and delamination after 1,000 hours(ASTM G154:2023)	

APPLICATION INFORMATION

Ambient Air Temperature	+8 °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 to reduce the risk of condensation on the surface finish.
Substrate Temperature	+8 °C min. / +40 °C max.
Substrate Moisture Content	≤ 6 % parts by weight. The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).
Drying Time	Apply one coat at a time, allowing interval of 4 to 8 hours between coats. Drying times will also be increased by restricted air movement.

SYSTEM INFORMATION

System Structure	Roof coating		
	Layer	Product	Consumption
	Primer	Depending on the substrate	Refer to Product Data Sheet
	1 st coat	Sikalastic®-510 AP	~ 0.68 kg/m ²
	2 nd coat	Sikalastic®-510 AP	~ 0.68 kg/m ²
	Roof waterproofing		
	Layer	Product	Consumption
	Primer	Depending on the substrate	Refer to Product Data Sheet
	1 st coat	Sikalastic®-510 AP	~ 0.68 kg/m ²
	Reinforcement	Sikalastic® Fleece-600	1 m ²
	2 nd coat	Sikalastic®-510 AP	~ 0.68 kg/m ²
	3 rd coat	Sikalastic®-510 AP	~ 0.68 kg/m ²

Note: Sika® Reemat Premium (or Sikalastic® Fleece-120) reinforcement is applied to areas with high movement, irregular substrate or to bridge cracks, joints and seams on the substrate as well as for detailing. The above consumption figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

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

- After application, Sikalastic®-510 AP must be protected from damp, condensation and direct water contact (rain) in accordance with substrate temperature and rain resistant guidelines.
- Do not apply Sikalastic®-510 AP on substrates with rising moisture.
- Ensure Sikalastic®-510 AP is totally dry and the surface is without pinholes before applying successive coats.
- Remove surface water between coating applications. Sikalastic®-510 AP must not be applied on roofs subject to long-term ponding water.
- Sikalastic®-510 AP is not suitable for cold climates.
- Reinforcement (partial or total) must be used over dynamic cracks and joints.
- Sikalastic®-510 AP is not recommended for direct exposure to pedestrian traffic.
- 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®-510 AP is applied on a falling substrate temperature.

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

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

Application Equipment

- Brush: Soft bristle
- Roller: Solvent resistant, "non-fuzzy"

SUBSTRATE PREPARATION

General

- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by industrial vacuuming equipment.
- To confirm adequate surface preparation and Sikalastic®-510 AP adhesion, carry out a small trial before full application together with adhesion tests as required.

Cementitious substrates

- Substrate must be sound, 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.
- 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 Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikalastic®-510 AP.

Brick and stone

- Mortar joints must be sound and preferably flush pointed.
- Use localised Sika® reinforcement over joints.

Ceramic, roof tiles

- Ensure all tiles are securely fixed.
- Replace any broken, loose or missing sections.
- Power wash the surface.

Metal

- Metals must be in a sound surface condition.
- Abrade exposed surfaces to a bright metal finish.
- Use localised Sika® reinforcement over joints and fixings.
- Use Sikalastic®-3 Primer XP to ensure proper adhesion and protect metal from corrosion.

Wood

- Wood and wood-based panel roof decks must be in good structural condition, firmly adhered or mechanically fixed.

Paints/Coatings

- The existing material must be sound and firmly adhered to the substrate.
- Remove any oxidized or loose layers.
- To confirm compatibility with Sikalastic®-510 AP, carry out a small trial before full application.

Existing Sikalastic®-510 AP

- The existing Sikalastic®-510 AP must be sound and firmly adhered to the substrate.
- Carry out adhesion tests to confirm adhesion values.
- Power wash to clean the surface.

APPLICATION

INSTALLATION PROCEDURE

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Important: Confirm waiting /overcoating times are achieved before applying subsequent coats / products.

Primer

Important: Make sure the primer on the substrate is continuous and pore free.

1. Pour the mixed primer onto the prepared substrate.
2. Apply the product evenly over the surface with a brush or fleece roller. Ensure a continuous coat covers the substrate.
3. Back roll the surface in two directions at right angles with a fleece roller.

ROOF COATING

Important: Apply 2 coats at the same consumption.

1. Apply the product evenly over the surface by airless spray, brush or short piled roller at the required consumption rate in 2 directions at right angles to each other.

ROOF WATERPROOFING

1st Coat

1. Apply the product evenly over the surface by brush or short piled roller at the required consumption rate in 2 directions at right angles to each other.

Reinforcement

Important: Reinforcement overlaps must be a minimum of 50 mm.

Note: It is recommendation to work 1.0 m at a time lengthways applying the 1st coat and embedding the reinforcement.

1. Roll in the appropriate reinforcement whilst Sikalastic®-510 AP is still wet ensuring there are no bubbles or creases in the reinforcement.
2. Allow to dry for at least 2 hours.

2nd Coat

1. Pour the product onto the reinforced 1st coat and apply evenly by brush or short piled roller at the required consumption rate at right angles to the previous coat.

3rd Coat

1. Apply evenly by brush or short piled roller at the required consumption rate at right angles to the previous coat.

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 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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Product Data Sheet

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