

## PRODUCT DATA SHEET

# Sikalastic®-525 RoofPro GCC

## ECONOMICAL LIQUID APPLIED ROOF WATERPROOFING SOLUTION

### DESCRIPTION

Sikalastic®-525 RoofPro GCC is a one-component polyurethane modified acrylic dispersion with improved water ponding resistance, excellent UV resistance, good crack bridging capacity and great aesthetics. Suitable for use in hot climatic conditions.

### USES

- For exposed roof waterproofing solutions in both new construction and refurbishment projects
- For exposed roofs with many details and complex geometry when accessibility is limited
- For cost efficient life cycle extension of failing exposed roofs
- For reflective coating to enhance energy efficiency by reducing cooling costs (Sikalastic®-525 RoofPro GCC White)

### FEATURES

- Good behavior under limited water ponding
- Resistant to UV light, yellowing and weathering
- Highly elastic and crack-bridging
- Non-toxic and VOC compliant water based coating
- One component - ready to use
- Excellent adhesion on porous and non-porous substrates
- Seamless waterproofing membrane
- Water vapour permeable
- Cold applied - requires no heat or flame

### SUSTAINABILITY

- Conforms to the requirements of LEED EQ Credit 4.2: Low - Emitting Materials: Paints & Coatings: VOC < 100 g/l
- Conforms to Solar Reflectivity Index (SRI) requirement of  $\geq 78$ , for white color

### PRODUCT INFORMATION

|                         |  |
|-------------------------|--|
| Composition             | Polyurethane modified acrylic dispersion   |
| Packaging               | 25 kg plastic pail   |
| Colour                  | White and Grey   |
| Shelf life              | 12 months from date of production if stored properly in original, unopened and undamaged sealed packaging. |
| Storage conditions      | The product must be stored properly in dry conditions at temperatures between +5 °C and +30 °C.            |
| Density                 | ~1.32 kg/l (+25 °C)  |
| Solid content by mass   | ~63 %  |
| Solid content by volume | ~48 %  |

## TECHNICAL INFORMATION

|                           |                             |              |
|---------------------------|-----------------------------|--------------|
| Tensile adhesion strength | ~1.5 N/mm <sup>2</sup> (7d) | (ASTM D7234) |
| Service temperature       | -5 °C min. / +80 °C max.    |              |

## APPLICATION INFORMATION

|                            |   |
|----------------------------|---|
| Ambient air temperature    | +10 °C min / +40 °C max   |
| Relative air humidity      | 80 % max.   |
| Dew point                  | Beware of condensation. Surface temperature during application must be at least +3 °C above dew point.  |
| Substrate temperature      | +10 °C min. / +40 °C max.   |
| Substrate moisture content | < 6 % moisture content.<br>No rising moisture according to ASTM (Polyethylene sheet).<br>No water / moisture / condensation on the substrate. |

**Waiting time to overcoating** Applying Sikalastic®-525 RoofPro GCC on Sikalastic®-525 RoofPro GCC diluted with 10 % water as a primer:

| Substrate Temperature | Relative Humidity | Minimum | Maximum                |
|-----------------------|-------------------|---------|------------------------|
| +20 °C                | 50 %              | ~2 h    | No limit <sup>1)</sup> |
| +30 °C                | 50 %              | ~1 h    | No limit <sup>1)</sup> |

Applying subsequent coat of Sikalastic®-525 RoofPro GCC on previous coat of Sikalastic®-525 RoofPro GCC:

| Substrate Temperature | Relative Humidity | Minimum | Maximum                |
|-----------------------|-------------------|---------|------------------------|
| +20 °C                | 50 %              | ~6 h    | No limit <sup>1)</sup> |
| +30 °C                | 50 %              | ~4 h    | No limit <sup>1)</sup> |

<sup>1)</sup> Assuming that all dirt has been removed and intercoat contamination is avoided.

**Applied product ready for use**

| Substrate Temperature | Relative Humidity | Touch Dry | Rain Resistant | Fully Cured |
|-----------------------|-------------------|-----------|----------------|-------------|
| +20 °C                | 50 %              | ~2 h      | ~24 h          | ~7 d        |
| +30 °C                | 50 %              | ~1 h      | ~18 h          | ~5 d        |

Note : Times are approximate and will be effected by changing ambient conditions particularly temperature and relative humidity. Low temperature and high relative humidity retards curing, while high temperature and low relative air humidity accelerates curing progression.

# SYSTEM INFORMATION

## System structure

### Reinforced Roof Waterproofing

For cost efficient waterproofing solutions in new construction and refurbishment projects.

| Layer         | Product                     | Consumption            |
|---------------|-----------------------------|------------------------|
| Primer        | Refer to primer table below | ~0.3 kg/m <sup>2</sup> |
| Basecoat      | Sikalastic®-525 RoofPro GCC | ~1.5 kg/m <sup>2</sup> |
| Reinforcement | Sika® Reemat Premium        | 1 m <sup>2</sup>       |
| Topcoat       | Sikalastic®-525 RoofPro GCC | ~0.5 kg/m <sup>2</sup> |
| Sealcoat      | Sikalastic®-525 RoofPro GCC | ~0.5 kg/m <sup>2</sup> |

### Non-reinforced Roof Waterproofing

For UV-stable coating to extend life of old roofs or as a reflective coating to enhance energy efficiency.

| Layer    | Product                     | Consumption            |
|----------|-----------------------------|------------------------|
| Primer   | Refer to primer table below | ~0.3 kg/m <sup>2</sup> |
| Basecoat | Sikalastic®-525 RoofPro GCC | ~0.5 kg/m <sup>2</sup> |
| Topcoat  | Sikalastic®-525 RoofPro GCC | ~0.5 kg/m <sup>2</sup> |
| Sealcoat | Sikalastic®-525 RoofPro GCC | ~0.5 kg/m <sup>2</sup> |

## 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.

## FURTHER DOCUMENTATION

Sikalastic®-525 RoofPro GCC General Method Statement

## IMPORTANT CONSIDERATIONS

- Sikalastic®-525 RoofPro GCC can be applied on roofs subject to short ponding water.
- Recommended slope of 1 % should be provided to substrate. (Depending on Roof layout and availability of Drains and Gutters, minimum could be 0.5 % slope).
- Protect the applied material from rain until 24 hours to get good ponding water capability.
- Do not apply Sikalastic®-525 RoofPro GCC on substrates with rising moisture.
- Always apply during falling ambient and substrate temperature. If applied during rising temperatures "pin holing" may occur from rising and expanding air.

- Ensure that temperature does not drop below 10 °C and that relative humidity does not exceed 80 % until the coating has fully cured.
- Do not allow temporary ponding to remain between coats on any horizontal surfaces or until the final coating has totally cured. Brush or mop surface water away during this time.
- Ensure that each coat of Sikalastic®-525 RoofPro GCC is totally dry before applying further coats.
- Sikalastic®-525 RoofPro GCC may be flood tested after 24 hours using 50 millimeter depth of water.
- Sikalastic®-525 RoofPro GCC may need to be maintained with additional coatings.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

# APPLICATION INSTRUCTIONS

## EQUIPMENT

### Airless spray equipment:

Recommended for metal roof. The pump should have the following parameter:

- min. pressure: 220 bar
- min. Ø nozzle: 0.023 inch

For example: Graco Classic 495 PC Airless Spray with Blue Tex Spray Gun / Tip (RACX / LTX523)

## SUBSTRATE PREPARATION

All substrates must be cleaned and prepared using high-pressure water jet, abrasive blast cleaning, scari-fying equipment, or other suitable approved mechanical methods.

### Cementitious substrates:

- New concrete should be cured for at least 28 days and should have a pull-off strength  $\geq 1.5 \text{ N/mm}^2$ .
- Cementitious or mineral based substrates must be prepared mechanically using suitable approved methods to achieve an open textured surface.
- Loose friable material and weak concrete must be completely removed by mechanical methods and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate Sika® products. Refer to Sika's Technical Department for further advice.
- High spots must be removed by mechanical methods such as grinding.
- Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in subsequently applied coatings. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any coating work. Applying the coating either when the concrete temperature is falling or stable can reduce outgassing.
- Prime the substrate before applying Sikalastic®-525 RoofPro GCC system.

### Bituminous felt:

- Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate.
- Bituminous felt should not contain any badly degraded areas and be primed before applying Sikalastic®-525 RoofPro GCC.

### Metals:

- Metals must be in a clean, sound, and rust free condition.
- Metals surfaces must be free of oil, greases and any contaminants that could impair coating adhesion.
- Abrade exposed surfaces to reveal bright metal.
- Use localised reinforcement such as Sikalastic® Flexitape Heavy or Sika® Joint Tape SA over joints and fixings.

### Paints and Coatings:

- Ensure the existing material is sound and firmly adhered.
- Remove any oxidized layers.
- Use localized reinforcement over joints.

## PRIMING

It is important that substrates are primed prior to application of Sikalastic®-525 RoofPro GCC coating to seal the substrate and for optimum adhesion.

Use the following primers for suitable type of substrates.

| <u>Substrate</u>                               | <u>Primer</u>                                       |
|--|---|
| Cementitious and absorbent substrates          | Sikalastic®-525 RoofPro GCC diluted with 10 % water |
| Metal, Bituminous and non-absorbent substrates | Sikalastic® Metal Primer N                          |

## MIXING

Prior to application, stir Sikalastic®-525 RoofPro GCC thoroughly for 1 minute in order to achieve a homogeneous mixture.

Avoid over mixing to minimise air entrainment.

## APPLICATION

Prior to application of Sikalastic®-525 RoofPro GCC, the primer must have cured as per the respective overcoating time.

### Sikalastic®-525 RoofPro GCC application with reinforcement:

- Apply first coat of Sikalastic®-525 RoofPro GCC with reinforcement, Sika® Reemat Premium, starting on skirtings and detailing areas before horizontal application. Apply Sikalastic®-525 RoofPro GCC at  $1.5 \text{ kg/m}^2$ . Work only so far in advance that the material stays liquid then lay the reinforcement, Sika® Reemat Premium on the wet coating. Press the reinforcement against the coating using a paint roller and allow the coating to embed the reinforcement. Allow the application to sufficiently dry for further coats.
- Check the reinforced coating application and seal any pinholes prior to subsequent coats.
- Apply the second coat of Sikalastic®-525 RoofPro GCC at  $0.5 \text{ kg/m}^2$ . Ensure that the reinforcements are fully embedded. Allow to dry as per recommended overcoating time.
- Apply the final coat of Sikalastic®-525 RoofPro GCC at  $0.5 \text{ kg/m}^2$  and allow to fully dry as per recommended curing time.

### Sikalastic®-525 RoofPro GCC application without reinforcement:

- Sikalastic®-525 RoofPro GCC is applied in minimum three coats at  $0.5 \text{ kg/m}^2$  per coat using brush, roller or airless spray.
- Seal all pinholes from initial coat prior to application of subsequent coats.
- Allow coating layers to dry as per recommended overcoating time.

## CLEANING OF EQUIPMENT

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

## 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 exact product data and uses.

## 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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Sika Construction Chemicals for Manufacturing LLC  
ISO 9001 – LMS  
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



**Product Data Sheet**  
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April 2025, Version 01.01  
020915151000242645