

## PRODUCT DATA SHEET

# Sikalastic-530 Thermic HK

### SINGLE COMPONENT FLEXIBLE ACRYLIC BASED HEAT REFLECTIVE & WATERPROOFING MEMBRANE

#### DESCRIPTION

Sikalastic®-530 Thermic HK is a solvent-free single component, seamless liquid applied acrylic based heat reflective waterproofing membrane for old and new roofs as an exposed system.

#### USES

- As exposed heat reflective and waterproofing system on roofs and walls.
- Can be applied to substrate such as concrete, render, aluminum sheet, cement board, masonry, brick, wood, etc

#### CHARACTERISTICS / ADVANTAGES

- Minimise surface temperature on roof and walls by reflecting a large percentage of radiant heat
- Reduces energy for cooling of buildings.
- Excellent adhesion on concrete, render and masonry
- One continuous waterproofing system for exposed area
- High crack bridging ability
- Good resistance to UV, mould and fungus
- Solvent free and low VOC
- Available in various colours

#### ENVIRONMENTAL INFORMATION

Sikalastic®-530 Thermic is listed on the Eco-Product Directory as environmentally friendly product choice for green building initiatives. (application no.: PL-01463-2022).

#### PRODUCT INFORMATION

|   |   |
|---|---|
| Chemical Base                           | Acrylic   |
| Packaging                               | 20kg per pail   |
| Shelf Life                              | 12 months   |
| Storage Conditions                      | Stored properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost. |
| Colour                                  | Grey, White   |
| Volatile Organic Compound (VOC) Content | <10 g/L   |

#### TECHNICAL INFORMATION

|                  |          |                 |
|------------------|----------|-----------------|
| Shore A Hardness | 65       | (ASTM D2240-15) |
| Tensile Strength | >3.8 Mpa | (ASTM D412-16)  |

|                                  |                           |                |
|----------------------------------|---------------------------|----------------|
| <b>Crack Bridging Ability</b>    | no crack within 2mm       | (ASTM C1305M)  |
|                                  | Passed                    | (ASTM C838-18) |
|                                  | Elongation at Break >260% | (ASTM D412-16) |
| <b>Tensile Adhesion Strength</b> | >1.0 Mpa                  | (ASTMD4541-17) |
| <b>Solar Reflectance</b>         | ~87.7% (White)            |                |
| <b>Thermal Emittance</b>         | ~0.91 (White)             |                |

## SYSTEM INFORMATION

### System Structure

#### STANDARD COATING SYSTEM

| Coating System       | Product  | Consumption                 |
|----------------------|--|-----------------------------|
| Primer Coat *        | Sikalastic®-500 Acrylic Primer HK/Sikafloor®-156 | ~ 0.1-0.2 kg/m <sup>2</sup> |
| 1 <sup>st</sup> Coat | Sikalastic®-530 Thermic HK                       | ~ 1.0 kg/m <sup>2</sup>     |
| 2 <sup>nd</sup> Coat | Sikalastic®-530 Thermic HK                       | ~ 1.0 kg/m <sup>2</sup>     |

#### REINFORCED COATING SYSTEM (SIKA®GLASS FABRIC 55G)

| Coating System | Product  | Consumption                 |
|----------------|--|-----------------------------|
| Primer Coat*   | Sikalastic®-500 Acrylic Primer HK/Sikafloor®-156 | ~ 0.1-0.2 kg/m <sup>2</sup> |
| Base Coat      | Sikalastic®-530 Thermic HK                       | ~ 1.5 kg/m <sup>2</sup>     |
| Reinforcement  | Sikalastic® Fleece 80/ Sika®Glass Fabric 55G     |                             |
| Top Coat       | Sikalastic®-530 Thermic HK                       | ~ 1.0 kg/m <sup>2</sup>     |

\*For roof refurbishment direct apply Sikalastic®-530 Thermic HK on top of existing tiles, use Sikafloor®156 as primer.

- Alternative Sika reinforcement options can be used.
- These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage

## APPLICATION INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>Ambient Air Temperature</b>    | 10°C to 30°C  |
| <b>Waiting Time / Overcoating</b> | 4-6 hours (@ rh 30-80%) depends on the coating thickness and temperature of substrate |

## 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.

fore flood test on treated area. For situations of low temperature or high humidity, prolonged drying times is inevitable.

- For metal, bitumen and asphalt surface, a barrier primer should be applied.

## FURTHER DOCUMENTS

- Do not apply at ambient and substrate temperatures less than 10 °C
- Do not apply directly to wet and damp surface
- Do not thin with water or other solvents
- Do not apply to areas when rain is imminent
- Ensure adequate ventilation during application
- Allow 5-7 days (@25 oC & RH 75 %) drying period be-

## 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. VOC Data VOC content (ready to use) not exceeding 50g/litre [ Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (Roof coating (exposed) ]

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All substrates must be structurally sound, stable, dry and clean (compressive strength : min. 25 N/mm<sup>2</sup> and cohesive strength: min. 1.5N/MM<sup>2</sup>). smooth shiny surfaces are to be roughened while uneven surface to be leveled or filled first. All surface should be free of sharp protrudings, loose materials, d-bonded coatings, curing membranes, release agents, wax residues, laitance, algae and moss, oils, dust, etc. Structurally unsound layers and surface contaminant are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent method. Cracks and faulty joints should be repaired.

### APPLICATION

#### Priming

A primer coat (Sikalastic®-500 Acrylic Primer HK) should be applied on the concrete surface prior to the application of waterproofing membrane. Care should be taken to ensure the required membrane final dry film thickness is achieved.

#### Application Method / Tool

Sikalastic®-530 Thermic HK can be applied by brush, roller, trowel, squeegee or airless spray directly onto the treated substrate. Apply subsequent coats at different directions to the previous coat. Before applying any coating, the previous coat must be touch dry. Subsequent coats should be applied within a max. period of 24 hours. The finished membrane should be protected from damage by other trades.

### CLEANING OF TOOLS

Clean all tools and application equipment with clean water 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

#### SIKA HONGKONG LTD.

Rm.1507-12, Blk A, New Trade Plaza,  
6 On Ping Street, Shatin, N.T., H.K.  
Phone: +852 26868108  
Fax: +852 26453671  
Mail: marketing@hk.sika.com  
Website: www.sika.com.hk



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