

## PRODUCT DATA SHEET

# Sikatherm<sup>®</sup>-712 Render

## LIGHTWEIGHT INSULATION PLASTER

## DESCRIPTION

Sikatherm<sup>®</sup>-712 Render is an insulating system designed for external facades of houses, buildings, or other structures as well as internal partitions or ceilings. It is applied in the same way as a wall plaster onto exterior and interior surfaces with hand trowelling tools.

## CHARACTERISTICS / ADVANTAGES

- Excellent thermal insulation
- Good acoustic insulation
- Fire-resistant
- Water repellent to avoid loss of insulation properties after rain

## USES

Suitable for both internal and external wall application.

## PRODUCT INFORMATION

|                    |                                                                                                                                                               |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Base      | Cementitious mixture and expanded glass beads                                                                                                                 |
| Packaging          | 6.5 kg                                                                                                                                                        |
| Shelf Life         | 12 months from manufacture date                                                                                                                               |
| Storage Conditions | Store properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Protect from direct sunlight. |
| Density            | 450 – 550 kg/m <sup>3</sup>                                                                                                                                   |

## TECHNICAL INFORMATION

|                           |                         |
|---------------------------|-------------------------|
| Compressive Strength      | > 1.2 N/mm <sup>2</sup> |
| Tensile Adhesion Strength | > 0.3 N/mm <sup>2</sup> |
| Resistance to fire        | Non-combustible         |
| Thermal Conductivity      | ≤ 0.070 W/(m.K)         |

## APPLICATION INFORMATION

|                         |                         |
|-------------------------|-------------------------|
| Ambient Air Temperature | +6 °C min / +40 °C max. |
| Substrate Temperature   | +6 °C min / +40 °C max. |

## 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 OF USE

- Insulation properties are directly dependent on the thickness and density of the insulated render.
- Trial mixes are mandatory before any application.
- Density might vary due to variations in the light-weight aggregate.
- Apply only to sound and well-prepared substrate.

## 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 QUALITY / PRE-TREATMENT

The substrate must be clean, sound, dust free without any traces of oil, laitance, curing compound and other contaminants. The substrate must be fully cured and is sound enough to receive the weight of Sikatherm®-712 Render. This is important especially for renovation works or refurbishments as old plasters might debond from the wall or ceiling surface which will cause debonding of Sikatherm®-712 Render as well.

Deeply contaminated substrate must be abraded to clean and sound surface.

### MIXING

#### Hand Mixing

- Prepare a flat bottom container with 20 Ltr capacity.
- Pour 80% of the required water into the container.
- Pour in Sikatherm®-712 Render into container and start hand mixer to mix until homogenous consistency.
- Ensure that the hand mixer is moved around to have proper mixing.
- Remaining 20% water can be used to adjust the consistency of the mixture.

## APPLICATION

### By hand

#### Slurry Scratch/Key Coat

Prime with a slurry scratch coat /key coat by mixing SikaLatex®-751 with cement at 1: 1.5-2 ratio. Apply a thin coat of this slurry scratch coat to form a key coat. Then, while the key coat is still wet, apply a thin light-weight insulation plaster as a contact layer (3 – 4 mm) onto the primed substrate. Leave the thin contact layer to dry for at least 6 hours before applying next layer of insulation plaster.

The material from the bucket is applied with a masonry spatula/trowel directly to the wall surface conventional plaster. Continue to apply Sikatherm®-712 Render in maximum layers of 4 – 5 cm until the desired thickness is reached. Necessary hardening time between layer applications must be observed. Depending on weather conditions, setting may take 6 to 24 hours.

#### Smoothing of the Surface and Final layers

The final stage is to level and smooth the surface, but this can only be done when the material has hardened. Hardening time may take approx. 24 to 72 hours, depending on weather conditions.

For protective or final layer: Apply up to 3 layers of SikaWall®-178 if necessary. Sika

Waterproofing products can be added if needed. Such additional layers can be applied after the final layers have been cured for 7 days.

### CLEANING OF TOOLS

- Clean mixing and application equipment with water immediately following use.
- Remove splatter or spills with water before material sets.

## 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.

### **Sika (Singapore) Pte Ltd.**

28 Tuas South Ave 8

Singapore 637648

Phone: +65 6861 0632

Fax: +65 6862 3915

Email: [sales@sg.sika.com](mailto:sales@sg.sika.com)

[www.sika.com.sg](http://www.sika.com.sg)



### **Product Data Sheet**

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