

## PRODUCT DATA SHEET

# SikaWall®-168 Render Coarse

(formerly Davco® Render Coarse ECO)

## PREMIUM GRADE PREMIXED CEMENTITIOUS COARSE RENDER

### DESCRIPTION

SikaWall®-168 Render Coarse is a premium grade high performance premixed plastering material that is specially formulated with low carbon footprint to minimise the impact on the environment. It provides superior bonding to concrete substrate and brickwork surfaces.

SikaWall®-168 Render Coarse comprises of Ordinary Portland Cement, polymers, graded sands, approved recycled materials and chemical additives to provide a durable plaster for both internal and external use.

SikaWall®-168 Render Coarse is approved by the Eco-labelling authority in Singapore as a sustainable building material.

### USES

SikaWall®-168 Render Coarse is an extremely versatile material, highly recommended for bedding, pointing brickwork and blockwork, backing and bedding for wall tiles.

It is also recommended for internal and external plastering.

SikaWall®-168 Render Coarse is suitable for all types of concrete substrate, lightweight autoclaved aerated blocks, brickwall and blockwall.

### CHARACTERISTICS / ADVANTAGES

- Lower product carbon footprint
- Premixed to ensure good consistent quality
- Prepacked to allow easy handling and mixing on site
- Eliminates all surface crack lines
- High bonding strength
- Good weather resistance and high durability

### PRODUCT INFORMATION

|                     |  |
|---------------------|--|
| Packaging           | 40 kg/bag  |
| Appearance / Colour | Grey Powder  |
| Shelf Life          | 12 months from the date of production  |
| Storage Conditions  | Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost. |
| Consistency         | Consistency Retentivity<br>≥ 65 %<br>(BS 4551 : 2005 + A1 : 2010)  |

### TECHNICAL INFORMATION

|                      |  |
|----------------------|--|
| Compressive Strength | 12 - 20 N/mm <sup>2</sup><br>(BS EN 1015 - 11 : 1999)                |
| Shrinkage            | Linear Shrinkage<br>≤ 0.10 %<br>(ASTM C531 : 2000 (Reapproved 2005)) |

|                                  |                     |                            |                               |
|----------------------------------|---------------------|----------------------------|-------------------------------|
| <b>Tensile Adhesion Strength</b> | Average Strength    | $\geq 0.75 \text{ N/mm}^2$ | (BS EN 1015 - 12 : 2000)      |
|                                  | Individual Strength | $\geq 0.6 \text{ N/mm}^2$  |                               |
| <b>Shear Adhesion</b>            | Average Strength    | $\geq 1.0 \text{ N/mm}^2$  | (HDB's Test Method (28 days)) |
|                                  | Individual Strength | $\geq 0.7 \text{ N/mm}^2$  |                               |
| <b>Water retention</b>           | $\geq 95 \%$        |                            | (BS 4551 : 2005 + A1 : 2010)  |

## APPLICATION INFORMATION

|                        |   |                 |                                    |
|------------------------|---|-----------------|------------------------------------|
| <b>Mixing Ratio</b>    | 5.6 - 6.6 ltr of water to 40 kg bag     |                 |                                    |
| <b>Consumption</b>     | 25 - 30 m <sup>2</sup> / mm / 40 kg bag |                 |                                    |
| <b>Layer Thickness</b> | 15 mm thick / layer of application      |                 |                                    |
| <b>Pot Life</b>        | 40 - 60 minutes                         |                 |                                    |
| <b>Setting Time</b>    | 1 N/mm <sup>2</sup>                     | 240 - 360 mins  | (BS EN 1015 - 9 : 1999 (Method A)) |
|                        | 2 N/mm <sup>2</sup>                     | $\leq 500$ mins |                                    |

## 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.

## 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 PREPARATION

Remove all dust, oil or traces of foreign materials. Dampen the dry concrete or plastered surface before application of SikaWall®-168 Render Coarse. SikaWall®-168 Render Coarse is not a structural repair material so it should not be used to patch and level concrete surface that is out of alignment.

### MIXING

Mix thoroughly using an electrical mixer or a paddle mixer for 3 - 5 minutes until the desired homogeneous mortar paste is achieved. Ensure the mix is free from lumps before use.

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## APPLICATION

SikaWall®-168 Render Coarse is applied using a steel trowel or spraying machine. It will remain workable for approximately 40 - 60 minutes after mixing. The first coat should have application thickness not exceeding 8 mm. After curing under shaded ambient conditions for 4 hours, the second coat is applied. The maximum application thickness for each layer is 15 mm.

### CURING TREATMENT

In hot ambient temperature, the plaster should be cured with water spray during the first 2 days, for better shrinkage control.

## 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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