

## PRODUCT DATA SHEET

# SikaWall®-110 Render

### ECONOMICAL CEMENTITIOUS READY MIX PLASTER

#### DESCRIPTION

SikaWall®-110 Render is a cementitious ready mix plaster, to carry out traditional plastering works in a clean and speedy manner, while keeping a homogeneous mix. It can be applied by a suitable plastering machine or manually. Suitable for use in hot and tropical climatic conditions.

#### USES

SikaWall®-110 Render is recommended for internal and external plastering of concrete surfaces, bricks, regular blocks, concrete blocks, etc. and for general filling up.

#### CHARACTERISTICS / ADVANTAGES

- Economical
- Ready to use, mix with water only
- Good adhesion and good mechanical properties
- Good workability
- Durable
- Traditional manual application
- Suitable plaster-spraying machines application

#### PRODUCT INFORMATION

<b>Composition</b>	Portland cement, processed mineral aggregates, specific additives & fibers
<b>Packaging</b>	40 kg and 50 kg bag
<b>Appearance / Colour</b>	Grey powder
<b>Shelf life</b>	12 months from the production date
<b>Storage conditions</b>	Store in dry conditions in original sealed undamaged packaging at temperatures between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture.
<b>Density</b>	~1.40 kg/l (bulk density-powder)
<b>Maximum grain size</b>	~1.70 mm

#### TECHNICAL INFORMATION

<b>Tensile adhesion strength</b>	System <sup>1</sup> adhesion: $\geq 1.00 \text{ N/mm}^2$ (28d) (EN 1542) Note: <sup>1</sup> System: SikaWall®-110 Render with keycoat (primer) SikaWall®-105 Rush Coat
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## APPLICATION INFORMATION

<b>Mixing ratio</b>	Water / Powder ratio (w/p) = 0.17-0.19 6.8 L - 7.6 L of water per 40 kg bag 8.5 L - 9.5 L of water per 50 kg bag
<b>Fresh mortar density</b>	~1.25 kg/l
<b>Layer thickness</b>	min. 8 mm, max. 30 mm Note: For application in external areas, or in extreme weather conditions (high temperature, wind exposure, etc.), it is not recommended to exceed 20mm thickness. For higher thicknesses, application in multiple layers is possible.
<b>Ambient air temperature</b>	+5 °C min / +40 °C max
<b>Substrate temperature</b>	+5 °C min / +40 °C max
<b>Pot Life</b>	~100 minutes (+25 °C)

## 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 INFORMATION

- General best practice of rendering applies.
- On all types of surfaces, rendering must be started 15 cm above the ground level in order to prevent the upward migration of water/salts due to capillary action of render.
- On high absorbant, rough surfaces, rush coat (key-coat) e.g. SikaWall®-105 Rush Coat, should be applied prior to application of render.
- For best results, always apply mock-up area first, as per the substrate requirements.
- Mechanically fixed steel wire mesh is recommended in all areas of substrate transition (e.g. blocks to concrete).

## IMPORTANT CONSIDERATIONS

- Apply only on vertical areas, without mechanical impact.
- Not to be used as concrete repair material.
- Do not apply in submerged areas.
- For application of highly absorbant substrates, like AAC blocks, contact Sika's Technical Support.
- Always refer to best industry practice for crack mitigation in terms of substrate preparation, change in substrate material, addition of galvanized wire mesh where required and proper curing.

## 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

### SUBSTRATE QUALITY / PRE-TREATMENT

Remove all the dust, loose particles, cement laitance, oil and grease from the surface to be plastered / rendered. Spray sufficient amount of clean potable water to neutralize the absorption of the substrate. Allow the free water to completely evaporate before the application of SikaWall®-110 Render. Fixing of all attachments such as pipe, electrical fittings, corner beads etc. should be carried out before the rendering works.

For rendering of concrete, bonding slurry (rush coat - keycoat) should be applied to achieve mechanical bond, prior to rendering (e.g. SikaMur®, SikaWall®, Sika MonoTop® range, or mixture of sand, cement and SikaLatex®). Proper curing of the keycoat should be done by applying potable water 3-4 times a day for at least 3 days.

In case of dissimilar substrates, fix a galvanized steel wire mesh across the joint or larger areas to prevent the formation of cracks due to movement. For straight vertical joints of masonry substrate a "V" groove cut should be made in the rendering when it is in wet condition.

### MIXING

Add water according to the desired consistency and recommended mixing ratio into a clean mixing vessel before slowly adding the SikaWall®-110 Render powder. SikaWall®-110 Render is best mixed in a forced action mixer, for 2 to 3 minutes or until the mix is free of lumps, not longer than 5 minutes. Slow speed drill (maximum 500 rpm) can also be used for mixing. Normal tumble type concrete mixers are not suitable. Do not mix more material than can be placed within the pot life.

Do not add extra water or other ingredients. Mix only full bags for the best result. When applied with plastering machine, the water is manually adjusted by the flow meter. Before application, apply test area first, to set up the spray equipment. Do not add excess water during application. Always follow recommended mixing ratio. Do not re-use hardened material.

## APPLICATION

- The plaster is now ready for application by machine or manually with a plastering trowel. Apply the plaster on the prepared surface at a thickness between 10 and 20 mm in one layer.
- Finish the surface with a soft synthetic sponge and a steel float.
- Let the product set properly on the surface before any curing.
- If more thickness is required, the application should be done in 2 layers. First layer should be left rough. Cure the first layer. Apply the second layer at least 48 hrs after the first one.

## CURING

- Protect the new surface applied from sunshine and wind.
- The new plaster has to be cured with water for at least three days by spraying 3 to 4 times daily.

## CLEANING OF EQUIPMENT

Application and mixing tools should be cleaned with water while the material is still fresh. Hardened 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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under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
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### Product Data Sheet

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