

PRODUCT DATA SHEET

SikaWall®-171 Render Fine

(formerly Davco® Render Fine Eco)

PREMIUM GRADE PREMIXED CEMENTITIOUS FINE RENDER



DESCRIPTION

SikaWall®-171 Render Fine is a premium grade, high performance cementitious premixed plastering material that is specially formulated with low carbon footprint to minimise the impact on the environment. It provides superior bonding to concrete and block/brick work surfaces.

SikaWall®-171 Render Fine 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.

USES

SikaWall®-171 Render Fine is a very 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®-171 Render Fine 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 mixing on site
- Eliminates all surface crack lines
- High bonding strength
- Good weather resistance and high durability

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 4093

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 ≥ 65 % (BS 4551 : 2005 + A1 : 2010)

TECHNICAL INFORMATION

Compressive Strength	12 - 20 N/mm ² (BS EN 1015 - 11 : 1999)
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Shrinkage	Linear Shrinkage ≤ 0.10 %		(ASTM C531 : 2000 (2005))
Tensile Adhesion Strength	Average Strength	≥ 0.75 N/mm ²	(BS EN 1015 - 12 : 2000)
	Individual Strength	≥ 0.6 N/mm ²	
Shear Adhesion	Average Strength	≥ 1.0 N/mm ²	
	Individual Strength	≥ 0.7 N/mm ²	
Water retention	≥ 95 %		(BS 4551 : 2005 + A1 : 2010)

APPLICATION INFORMATION

Mixing Ratio	5.6 - 6.6 ltr of water to 40 kg bag		
Consumption	26 - 30 m ² / mm / 40 kg bag		
Layer Thickness	15 mm thick / layer of application		
Pot Life	40 - 60 min		
Setting Time	1 N/mm ²	240 - 360 mins	(BS EN 1015 - 9 : 1999)
	2 N/mm ²	≤ 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

SURFACE PREPARATION

Remove all dust, oil or traces of foreign materials. Dampen the dry concrete or plastered surface before application of SikaWall®-171 Render Fine. SikaWall®-171 Render Fine 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.

APPLICATION

SikaWall®-171 Render Fine 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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