

PRODUCT DATA SHEET

SikaWall®-170 Render Screed

Thick-bed cementitious mortar for rendering and screeding

DESCRIPTION

Formerly Davco® Cement / Sand Mortar 123 and SUPRACOAT READY MIX PLASTER.
SikaWall®-170 Render Screed is a factory-prepared blend of selected raw materials, consisting of Ordinary Portland Cement and graded silica sand, designed for rendering and screeding applications for internal and external use.

USES

SikaWall®-170 Render Screed is suitable for:

- Cement-sand screed applications on floors
- Rendering works on walls and ceilings
- Internal and external applications
- Application on lightweight concrete blocks (to be primed with Sika® Primer-11 W MY)

CHARACTERISTICS / ADVANTAGES

- Economical – reduces material wastage and labour cost
- Pre-mixed – consistent quality, just add water
- Versatile – suitable for walls, floors, and ceilings
- Good workability for easy application
- Reduces risk of efflorescence and bleeding

PRODUCT INFORMATION

Packaging	40 kg bag
Appearance / Colour	Grey powder
Shelf Life	6 months from date of production
Storage Conditions	Store properly in dry conditions, in undamaged and unopened, original sealed packaging. Keep away from direct sunlight, rain, water and moisture.

TECHNICAL INFORMATION

Compressive Strength	≥ 50 N/mm ²	(ASTM C109)
Tensile Adhesion Strength	≥ 0.5 N/mm ²	(EN 1015-12)

APPLICATION INFORMATION

Mixing Ratio	~8.0 L of water per 40 kg bag
Consumption	~2.4 kg/m ² /mm <small>* This may only serve as a guideline. It is highly recommended to carry-out trials on site to determine the actual coverage</small>
Pot Life	~1 hour at 28 °C

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.

IMPORTANT CONSIDERATIONS

- Do not apply on substrates such as wood, metal, glass, plastic, asphalt, or vinyl
- Avoid application on weak or contaminated substrates
- Ensure proper curing to minimise cracking and surface defects
- For render and screed applications, allow adequate drying time before tiling

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

- All substrates must be structurally sound, clean, and free from dust, grease, oil, wax, curing compounds, and any loose or contaminating materials that may impair adhesion.
- Dusty concrete or masonry surfaces should be thoroughly cleaned and pre-dampened with water prior to the application of SikaWall®-170 Render Screed.
- New concrete substrates must be allowed to cure adequately (minimum 28 days) before application.
- For brickwork, hollow blocks, and lightweight aerated (AAC/ALC) blocks, a suitable bonding slurry or scratch coat is recommended to enhance adhesion.
- Highly porous or dry substrates must be pre-wetted to achieve a saturated surface dry (SSD) condition prior to application.
- It is the user's responsibility to determine the suitability and condition of the substrate before application.

MIXING

Pour the recommended amount of clean water into a suitable mixing container. Gradually add SikaWall®-170 Render Screed while mixing continuously using a low-speed electric mixer (approximately ~500 rpm) to minimize air entrainment.

Mix for at least 3 minutes until a homogeneous, lump-free mortar with a smooth and workable consistency is achieved.

Allow the mixture to mature for 2–3 minutes, then re-mix briefly before application.

APPLICATION

For optimum adhesion, apply a bond coat (slurry) consisting of cement and SikaLatex®, and place the mortar while the bonding slurry is still wet (wet-on-wet application), or alternatively apply Sika® Primer-11 W MY and allow it to dry until tack-free prior to application of the mortar, but not earlier than 2 hours after application.

Apply SikaWall®-170 Render Screed onto the prepared substrate using a steel trowel or appropriate plastering tools, ensuring proper compaction to eliminate voids.

Rendering application

Apply the mortar to the required thickness of 13–20 mm. Where thickness exceeds 20 mm, apply in multiple layers, allowing the previous layer to stiffen before applying the next.

Screeding application

Place the mortar onto the substrate and spread evenly using screed bars or guides. Compact thoroughly and level using a straight edge or screed board. Finish with a wood float or steel trowel depending on the required surface finish. For floating screeds, install a suitable separation layer (e.g. polyethylene sheet) prior to application.

Thickness guidelines

Rendering: 13–20 mm

Screeding: 20–50 mm

For thicker sections, reinforcement such as BRC mesh is recommended to minimise cracking.

Cement-sand and fine concrete levelling screeds should be cured for a minimum of 7 days, followed by continuous air drying for at least 14 days prior to tile installation. Refer to BS 5385 or MS 1294 for further

guidance. Ensure screed/render levels are properly aligned to achieve the optimum adhesive bed thickness.

CLEANING OF TOOLS

Clean all tools and application equipment's with clean water immediately after use. Hardened or cured material can only be removed mechanically.

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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