BUILDING TRUST

PRODUCT DATA SHEET

SikaWall®-117 Base Coat KE

ONE COAT WEATHER RESISTANT GREY RENDER

DESCRIPTION

One-coat weather resistant grey render for internal and external walls. Suitable as a grey coat finishing render or as a base coat for receiving a decorative fin ish. e.g. mineral & acrylic colored renders.

USES

Base Coat / Finishing Coat Render for dense masonry substrates

CHARACTERISTICS / ADVANTAGES

- Suitable for diesel and electric spray machines
- Water resistant in one coat
- Excellent for float smoothing
- Only suitable for strong dense substrate

APPROVALS / CERTIFICATES

BS EN 998-1:2010

PRODUCT INFORMATION

Composition	Hydraulic mortar containing: Cement, lime, siliceous and calcareous sands, mineral pigments and specific admixtures.
Packaging	25 kg bags
Shelf life	12 Months from date of manufacture
Storage conditions	Dry frost free conditions
Maximum grain size	2 mm

TECHNICAL INFORMATION

Compressive strength	CS IV
Reaction to fire	A1
Capillary absorption	Wc2
Water absorption	W2

APPLICATION INFORMATION

Mixing ratio	3.75 - 4.5 L per 25 kg bag

Consumption

Coverage is provided as a guidance only, excludes wastage and will vary subject to substrate conditions and thickness applied.

USES	WEATHERPROOFING COAT
Substrate	Concrete Blocks, Bricks, etc
Float smoothed	1.8 Kg/m² @ 1 mm

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.

IMPORTANT CONSIDERATIONS

- Product intended for professional use.
- It is advisable when completing the different finishes, to take into account the hardening time, which will vary accord ing to climatic conditions.
- Avoid applications on substrates exposed to direct sun or in hot drying winds.
- Do not apply on over heated substrates. In hot con ditions dampen the substrate prior to application. Dampen the render after application.
- Do not apply to a frozen substrate or on thawing substrates. Do not use in freezing conditions. Take precautions during damp climatic conditions. (Discol ouration could occur).
- Do not apply on very wet substrates or where there are wet patches.
- Minimum application temperatures: +5 °C
- Over +30 °C, special precautions must be taken.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, stor age and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) con taining physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

EQUIPMENT

EQUIPMENT REQUIRED

Application by machine	Spray Render Machine	Constant Mix and Pump Ma chine
Pump Pressure	10-12 bar (water)	2.5-6 bar/360 water flow L/hr
Pumping dis tance/height	Up to 120 m/60 m approx	Up to 50 m/30 m approx
Power Source	Diesel	Electric

SUBSTRATE QUALITY

SUITABLE FOR
Masonry and walls conforming to BS 5628-3 and con structed from the following:

- Dense aggregate concrete blocks.
- Dense bricks.
- Breeze blocks (clinker).
- Stone/rubble stone.
- Shuttered concrete.
- Clean, sound, well adhered existing render.
- Base coats conforming to BS EN 13914-1
- Below dpc applications and old substrates in accord ance with BS8000 - 4 Code of Practice for Water proofing - consult Sika for guidance.

UNSUITABLE FOR

- High-suction, weak or old substrates.
- Ultra-lightweight & lightweight aggregate concrete blocks., clay blocks, standard low and normal density lightweight aircrete blocks.
- Dry stacked inter-locking modular wall units
- Weak mortar or plaster coated constructions.
- Exposed vertical substrates with a backward incline above 10 ° - a backward incline may affect water run off and may have a tendency to hold moisture.

SUBSTRATE PREPARATION

- Substrates must be clean, sound, dust free and free of any material which may prevent adhesion.
- Remove all traces of plaster, paint, etc.
- Construction of the masonry must be compliant with BS 8000-3.
- On shuttered concrete and other nonabsorbent sub strates, first apply a coat of primer or a key-coat made up by adding 0.5 L of SikaLatex® to the mixing water volume for 25 kg of SikaWall®-117 Base Coat KE.
- On wet or wet patchy substrates or where different materials have been used it is advisable to apply a key coat made up by exchanging 0.5 L of water for 0.5 L of SikaLatex® for the mixing volume for a 25 kg bag of SikaWall®-117 Base Coat KE. Allow the key coat to fully dry a minimum of 48 hours before the applic ation of the next coat. This suggestion will as sist against the effect of ‘block ghosting’ and shade vari ation. Reinforcing mesh for mineral renders may also be required, dependent upon substrate condi tion and project specification.

*The float/sponge/trowel smoothed finishes may vary in appearance, particularly due to different factors such as the line and level and condition of the sub strate or the appearance of a slurry finish caused by over floating the surface. The latter may produce some micro cracking effect on the render surface which may affect the aesthetical appearance but does not affect its durability

ADVISORY NOTE

- Due to shrinkage differentials, avoid applying a thin base coat and a thicker top coat application as the shrinkage values of a thicker top coat could cause the render to delaminate from the base coat. The same effect is also caused by applying a very hard render over a softer base coat.
- Always refer to the Sika mesh application details. To avoid shade variations always apply and finish the render application to whole elevations at the same time.

APPLICATION

- Refer to and comply with the Substrate Preparation first.
- For very severe wind driven rain index locations, high exposure or coastal zones please contact Sika for ad ditional guidance as the render thickness may need to be increased and additional surface treatment may be recommended.
- Ensure the product is mixed correctly with the cor rect water content and do not allow the render to cure too quickly as surface holes in the render could occur.

SUITABLE FOR

- Machine or manual applications.

FOR WEATHERPROOFING CONCRETE BLOCK AND MA SONRY SUBSTRATES

- Float smoothed finishes for receiving a painted / dec orative finish or surfaces left as a grey coat render. Apply first coat, level, ruled, lined to a depth of 10 mm thick and leave with a toothed trowel finish ready to receive the second coat.
- For the finish, ap ply a minimum 5 mm coat and fin- ish using a stainless steel trowel, wooden, plastic or sponge float accord ing to the desired effect. For a base or key coat finish for receiving an addi tional decorative render finish. Apply one level, ruled, lined and compact 10 mm thick coat and leave with a toothed trowel finish.
- For a base or key coat finish for receiving tiling or a brick slip finish. Apply one level, ruled, lined and compact 15 mm thick coat and leave with a toothed trowel finish.

APPLICATION TO WATERPROOF SUBSTRATES (e.g. con- crete) Float smoothed finishes for receiving a painted / dec orative finish or surface left as a grey coat render. Ap ply a single coat between 7 - 8 mm thick, float-finish ing as you progress using a stainless steel trowel, wooden, plastic or sponge float finish accord- ing to the desired effect. For thicker applications, ap- ply 2 coats as for float finished weatherproofing coat- ing.

IMPORTANT NOTE

- SikaWall®-117 Base Coat KE applied to concrete must not be covered with tiling as additional waterproof ing requirements may be required. Contact Sika.
- Avoid using SikaLatex® in the top coat application of the trowel, float or sponge smooth finish.

SUITABLE OVERCOATING MATERIALS

After a minimum of 7 days drying time.

- Any of the Sika range of one-coat rendering mortars, applied to an even thickness, with a minimum overall covering thickness of 5 mm before applying a spray textured, smooth spray textured or float finish and 8 - 9 mm for a scraped finish. Ensure a minimum 15 mm overall finish is achieved.

Apply after a minimum of 21 days drying time.

- Paint, acrylic based coatings e.g. acrylic colored render, finishes, waterproofing systems.
- Bonded ceramic wall tiles applied in compliance with BS8000-11.1:1 & BS8000-11.2:1

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

The information, and, in particular, the recommenda- tions relating to the application and end-use of Sika products, are given in good faith based on Sika's cur- rent knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommenda- tions. In practice, the differences in materials, sub- strates and actual site conditions are such that no war- ranty 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 recom- mendations, or from any other advice offered. The user of the product must test the product’s suitability for the intended application and purpose. Sika re- serves 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 Kenya Limited
Josh Industrial Estate
P.O Box 38645 · 00623 Nairobi · Kenya
Mobile: +254 711 140234 / +254 786 140234
Web: ken.sika.com