

PRODUCT DATA SHEET

Sika[®]-1 Pre-bag LC Render Mortar

Low cement spray applied, 3-coat render system

PRODUCT DESCRIPTION

Sika[®]-1 Pre-bag LC Render Mortar is a pre-bagged, kiln dried blend of aggregates, cements, cement replacement materials with waterproofing admixtures. Packed as a single product system and formulated to achieve a high performance, durable and sustainable 3-coat render system. Mixed with water in differing quantities to achieve an initial bonding layer, render coat and finish. The formulation is optimized for spray applied applications

USES

- Internal waterproofing of below ground structures to meet the requirements of BS8102:2022 Grades 1 - 3
- Waterproofing of swimming pools and other water retaining structures
- Waterproofing of basements, cellars and vaults
- Waterproofing of tunnels

CHARACTERISTICS / ADVANTAGES

- Type A waterproofing system according to BS8102-2022
- Proven resistance to hydrostatic back pressure
- Fully bonded waterproofing barrier
- Can be applied to wet substrates
- For use on concrete, brick and structural blockwork
- Can be used internally and externally
- Can be applied on walls and soffits
- Quality controlled system
- Used for negative or positive water pressure situations
- Sustainable formulation
- Replacing cement to reduce CO₂ impact

PRODUCT INFORMATION

Packaging	Sika [®] -1 Pre-bag LC Render Mortar comes in 25Kg Bags
Shelf Life	9 months from date of production
Storage Conditions	Sika [®] -1 Pre-bag LC Render Mortar must be stored in dry conditions at temperatures between +10°C and +30°C
Density	1550 kg/m ³

TECHNICAL INFORMATION

Compressive Strength	≥50 MPa	(EN 12190)
Flexural Strength	≥8.0 MPa	(EN 196-1)
Capillary Absorption	0.09 kg/m ² .h ^{0.5}	(EN 13057)
Water Penetration under Negative Pressure	No penetration after 72 hours at 5 bar	(UNI8298/8)

SYSTEM INFORMATION

System Structure

Materials:

Sika®-1 Pre-bag LC Render Mortar

Walls:

The Sika®-1 Pre-bag LC Render Mortar System will use the single product over 3 layers:

- 6 mm Bonding Layer
- 6 mm Render Layer
- 6 mm Finishing Layer

Total system thickness minimum 18 mm. Additional coats of Sika® Render Mortar can be applied if necessary.

Floors:

For floors, please refer to the Sika®-1 Pre-Bagged System

Consumption

Mix each 25 kg bag with 3.9 - 4.2 L of water. A mixed 25 kg bag will yield ~12.4 L of mortar which is sufficient to cover ~2.2 m² at 6 mm thick.

Note: Setup will vary depending on spray equipment used. Please consult Sika technical services for guidance.

Consumption figures a guidance only and will depend on climatic conditions, substrate preparation and other variables.

VALUE BASE

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.

USES

Puncturing the system can compromise its integrity. Do not expose to frost while curing.

Allow Sika-1 Pre-Bag LC render to sufficiently dry out before over coating.

The structure and its elements must be capable of withstanding the developed water pressure and other anticipated loadings without cracking or delaminating.

Advice should be sought from independently qualified personnel with knowledge of the structure and local ground conditions.

Never score or scratch any of the render coats to provide a key.

Do not use gypsum based plaster over Sika-1 Pre-Bag LC Render System. Refer to plaster manufacturer for advice on suitability of product for use in waterproofing works.

FURTHER DOCUMENTS

Levelling of walls and screeds

Undulating surfaces should be levelled after application of the Sika®-1 Pre-bag LC Render Mortar for optimum performance.

All Construction and Movement Joints, including wall/floor joints, must be sealed using Sikadur® Combiflex® SG joint system prior to the application of the Sika®-1 Pre-bag LC Render Mortar. The top surface of the Sikadur® Combiflex® Adhesive should be broadcast with a course sand.

Cracks leaking water should be sealed with Sika® Injec-

tions systems or plugged using Sika®-4a Water Stop.

Fixings

Fixings can be applied to Sika®-1 Pre-bag LC Render Mortar by bonding to the cured surface or creating pockets before installation. See standard detailing sheet. Timber battens can be adhered onto Sika®-1 Pre-bag LC Render Mortar using Sikaflex 11FC to facilitate the application of a dry lining system. Sikadur Combiflex Adhesive or Sikadur 31+ can be used to structurally bond fixtures to Sika®-1 Pre-bag LC Render Mortar System.

Overcoating

Sika®-1 Pre-bag LC Render Mortar is not designed as a finished surface. To provide a smooth finish suitable for decorating, use a non-gypsum based, breathable renovating plaster.

Sikagard® and Sikafloor® coatings can be applied directly to Sika®-1 Pre-bag LC Render Mortar to enhance durability and aesthetics.

Sealing of Pipes and Ducts – Refer to detailing sheet.

Installation should be carried out by Sika® Registered Contractors.

Reference should always be made to the Detailing, Architectural and Engineering Consideration Sheets, Agrément Certificates and Installation Guides.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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

NOTE:

For best results the Sika-1 Pre-Bag LC render system should be installed using a suitable spray pump, please contact Sika technical services or consult the method statement for further information.

SUBSTRATE QUALITY

The substrate must be structural sound and generally brickwork, dense concrete block and concrete normally provide satisfactory substrates. All surfaces should be clean and free from surface contaminants and laitance to achieve an adequate bond.

SUBSTRATE PREPARATION

Any active water ingress should be arrested or plugged using Sika®-4a Waterstop.

Walls/Brick:

All existing treatments shall be completely removed and the exposed surfaces roughened by mechanical or water blasting techniques, followed by washing down and brushing to ensure full removal of all loose material. Mortar joints should be bonded and sound.

Any defective mortar joint should be raked out to a depth of 12.0mm and repointed using Sika® Monotop®-4012 made up with clean water.

Walls/Concrete:

All laitance shall be removed to expose coarse aggregate by mechanical or water blasting techniques.

On new concrete walls SikaCem® Desactivant® 4-6 Surface Retarder or similar can be applied to the face of the shuttering followed by wire brushing and washing of concrete surfaces.

Floors/General:

All existing treatments shall be completely removed and the exposed concrete floor mechanically prepared, washed down and brushed to ensure full removal of all loose debris to give an exposed aggregate finish, free of laitance, and surface contamination.

MIXING

When using a spray pump, follow the instructions laid out in the method statement.

APPLICATION

Sika-1 Pre-Bag LC render should be installed in 3 x 6mm layers.

For detailed instructions on spray application, please consult the Sika-1 Pre-Bag LC Render method statement.

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Decorative Finishes

Refer to Architectural and Engineering Considerations.

Floors:

For floors, please consult the Sika-1 Pre-Bag System data sheet

Corner Fillet – Use Sika Monotop 4012 to form any optional corner fillets.

FORMATION OF LAP JOINTS:

When applying Sika-1 Pre-Bag LC Render System, successive coats must be lapped to eliminate a continuous butt joint through the mortar.

The joints between successive coats of render and screed at day work joints must be stepped back to allow overlaps of a minimum 100 mm in length between coats. Before continuing with the new work the lap must be prepared by brushing and priming with a bonding coat of Sika®-1 Pre-bag LC Render Mortar.

CURING TREATMENT

Sika-1 Pre-Bag LC Render System must be kept moist during the work period and for a minimum 7 day period after final application to stop drying out and reduce cracking. Surfaces should be prevented from being exposed to sudden changes in air temperature, air movement and relative humidity.

LOCAL RESTRICTIONS

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

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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