



Sika® 1 Pre Batched Mortars

Components of the Sika 1 Structural Waterproofing Systems

Technical Data Sheet

DESCRIPTION

Sika 1 mortars are prebatched kiln dried blends of specially graded aggregates and cements packaged in 4 grades at the appropriate mix ratios for optimum application performance and durability.

When mixed with the diluted **Sika 1** liquid waterproofing admixture they provide the multicoat components for the structural waterproofing and waterproof render systems.

USES

- * Structural waterproof renders to resist water pressure below ground.
- * Structural waterproof screeds to resist water pressure below ground.
- * Waterproof renders to resist moisture and dampness above ground level.
- * Internal waterproof tanking.

ADVANTAGES

- * Quality controlled production and delivery.
- * Kiln dried for repeated quality mixes.
- * Consistent mix ratios.
- * Simple mixing.
- * Colour coded packaging for correct coating selection and quality control.
- * Reduces cracking potential.
- * Better finishing.
- * Does not contain impurities and therefore reduces efflorescence damage.
- * Optional OPC and SRC grades.
- * Low wastage.
- * For brick, concrete and stone substrates.
- * Wall render and screed application.
- * Can be used internally and externally.
- * Can be overplastered, coated and decorated.
- * Stand alone waterproofing system against ground water pressure.

Technical Data (typical)

Form:	Graded kiln dried aggregates and ordinary portland cement. Sulphate resisting cement also available.	
Colour:	Cement grey	
Mixed Wet Density: (approx)	Spritz Mortar	2080 kg/m ³
	Render Mortar	2220 kg/m ³
	Finishing Mortar	2130 kg/m ³
	Screed Mortar	2100 kg/m ³
Water Vapour Resistance:	2 coat system 12.0 MNsg ¹ 3 coat system 19.0 MNsg ¹	
System Application Temperature:	5°C minimum	30°C maximum
System Application:	Wall render 20mm (3 coats), 26mm (4 coats) Floor screed 35mm (3 coats)	
Working Time: (@ 20°C)	Approximately 30 minutes	

Sika 1 Structural Waterproofing System Compliance

BS8102:1990 - Code of practice for protection of structures against water from the ground - Type A basement structures.

Sika 1 structural waterproof renders and screeds in 3 or 4 coats provides protection suitable for basements of the following grades:

Grade 1 Basic utility:	Slight seepage and damp patches tolerable
Grade 2 Residential and Commercial:	No water penetration but moisture vapour tolerable
Grade 3 Ventilated residential and working areas:	A dry environment is required and water penetration is intolerable
Grade 4 Controlled environments, archives, computer rooms etc system	A totally dry environment, vapour impermeable NOTE: Additional vapour proof Sika coating required over render system

APPLICATIONS

STRUCTURAL WATERPROOFING BELOW GROUND: RENDER AND FLOOR SCREED SYSTEM

Owing to the specialist nature of structural waterproofing, all work should be carried out by a Sika recommended contractor. Workmanship should comply with BS8000: Pt4: 1989 Code of Practice for waterproofing. Contact Sika Limited for contractor information.

The **Sika 1** mortars are available in the following 4 grades:

Sika 1 Spritz & Bonding Coat Mortar
(1:1.0 cement-aggregate ratio)

Sika 1 Render Mortar
(1:1.5 cement-aggregate ratio)

Sika 1 Finishing Mortar
(1:2.5 cement-aggregate ratio)

Sika 1 Screed Mortar
(1:3.0 cement-aggregate ratio)

Sika 1 liquid is diluted (1:10 by volume) with clean water and mixed with the appropriate pre batched mortar by volume to produce wall render and floor screed mixes. .

Refer to installation guide before applying system.

The **Sika 1** waterproofing system must be cured correctly. Refer to Installation Guide for more details.

Reference should **ALWAYS** be made to the Detailing, Architectural and Engineering Consideration sheets, Agrément certificates and Installation Guide.

EXTERNAL WATERPROOF RENDER TO RESIST MOISTURE AND DAMPNESS ABOVE GROUND LEVEL

Nominal thickness 12.0 mm (2 coats).

Refer to Installation Guide before applying system.

IMPORTANT CONSIDERATIONS

- * When using as part of the **Sika-1** Structural Waterproofing System, do not mix plasticisers, lime, etc. with **Sika 1** mortars or **Sika 1** solution.
- * All work should comply with the recommendations outlined in BS 8102:1990 for cement based waterproof renders.
- * All screed works should comply with BS 8204-1:2003 Pt 1 for bonded screeds.
- * NEVER scratch previous coats in render to form a key, as this may let dampness through.
- * The finished tanking system should not be pierced. Refer to detailing sheets.
- * With the exception of the splatter coat applied to the Render Mortar **ALWAYS** add diluted **Sika 1** waterproofing admixture to **Sika 1** prebatched mortars. (See Installation Guide).

Sika-1 mortars may be used with **SikaTop® 77** or **Sika Latex** in non waterproofing applications (see separate technical data sheets).

PACKAGING

All mortars supplied in 25 kg bags with coloured band.

Spritz Mortar - Red band

Render Mortar - Brown band

Finishing Mortar - Green band

Screed Mortar - Blue band

CONSUMPTION/DOSAGE OF GAUGING SOLUTION

Sika 1 Spritz & Bonding Coat Mortar 5.7 litres

Sika 1 Render Mortar 3.3 litres

Sika 1 Finishing Mortar 3.3 litres

Sika 1 Screed Mortar 2.5 litres

Coverage: One 25 kg pack covers 2m² @ 6 mm thick.

Each 25 kg bag yields approximately 12.5 litres of mortar.

All the above values are approximate and based on diluted **Sika 1** liquid (1:10) per 25 kg pack.

STORAGE AND SHELF LIFE

Minimum 6 months in original unopened sealed containers stored in dry warehouse conditions (+10°C - +30°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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