



March 2005

Sika® 1

Waterproofing Admixture for Sand/Cement Render, Screeds and Mortar

Technical Data Sheet

DESCRIPTION

Sika 1 is an aqueous solution containing complex colloidal silicates. In the presence of water these swell and block the capillaries and pores in the applied sand/cement renders, screeds and mortar to provide an effective barrier against the transmission of liquid water.

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.
- * General waterproofing admixture for mortar
- * Part of the **Sika Watertight Concrete** system (See separate BBA certificate and data sheet).

ADVANTAGES

- * Proven for more than 90 years.
- * Pre batched system mortars available.
- * For brick, concrete and stone substrates.
- * Compatible with OPC and SRC.
- * Can be applied against live water infiltration.
- * Wall render and screed application.
- * Can be used internally and externally.
- * Excellent resistance to backwater pressure.
- * Excellent vapour resistance.
- * Complies with Water Quality Regulations.
- * Certified by the British Board of Agrément.
- * Complies with Building regulations (England, Wales, Scotland and Northern Ireland).
- * Suitable for contact with potable water.

Technical Data (typical)

Form:	Liquid
Colour:	Yellow
Liquid Density:	1.05 kg/litre
Chloride Content:	Nil
Freezing Point:	0°C
System Application Temperature	5°C or above
Suitability:	All Portland cements including sulphate resisting.
Approved for potable water contact. Details available on request.	
All above values are approximate.	

Sika 1 Structural System Waterproofing Compliance:

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

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
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Grade 2

Residential and Commercial:	No water penetration but moisture vapour tolerable
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Grade 3

Ventilated residential and working areas:	A dry environment is required and water penetration is intolerable
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Grade 4

Controlled environments, archives, computer rooms etc	A totally dry environment, vapour impermeable NOTE: Additional vapour proof Sika coating required over render system
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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.

LIFETIME HOMES STANDARDS

(1) Where car parking is adjacent to the home it should be capable of enlargement to obtain 3.3 m width.	Not applicable
(2) The distance from the car parking space to the home should be kept to a minimum and should be level of gently sloping	Not applicable
(3) The approach to all entrances should be level of gently sloping	The existing property has two shallow steps to the front door. This is a characteristic of all of the properties along this section of Great Russell Street. There is insufficient distance from the footway to the entrance door to achieve a ramp to the necessary gradient. It is considered that other options would be detrimental to the visual character of the listed building and would be disproportionate to the proposed development noting that this involves conversion from offices (semi public) to a single private residence
(4) All entrances should be illuminated and the main entrance should be covered.	The area is generally well lit as a result of street lighting and lighting from individual premises. In addition there is internal light via a large glazed panel immediately above the entrance door. There is no cover to the entrance and we note that there are no other porches or other front extensions along the whole of this terrace of listed buildings. We consider that any such addition would have a detrimental effect to the appearance of the terrace.
(5) Where homes are reached by lift it should be wheelchair accessible	Not applicable
(6) The width of doorways and hallways should accord with Access Committee for England Standards.	The proposals achieve 750 mm minimum for all existing openings and 800 mm minimum for new openings and minimum corridor widths of 1200 mm.

later date.	adaptability for a ceiling hoist across to the link area between reception 2 and reception 1 (potential bathroom).
(14) The bathroom layout should be designed to incorporate ease of access to the bath and WC.	The size and shape of the potential bathroom is considered to be adequate to provide suitable access to the bath and WC.
(15) Living room window glazing should be at 800 mm or lower.	The existing ground floor windows have a cill level at or just below 800 mm and therefore achieves this standard.
(16) Switches, sockets and service controls should be at a height useable by all (ie. between 600 mm and 1200 mm).	The Building Regulations do not require works to existing buildings to meet this standard. Nevertheless all new switches and service controls will be positioned at between 600 – 1200 mm.