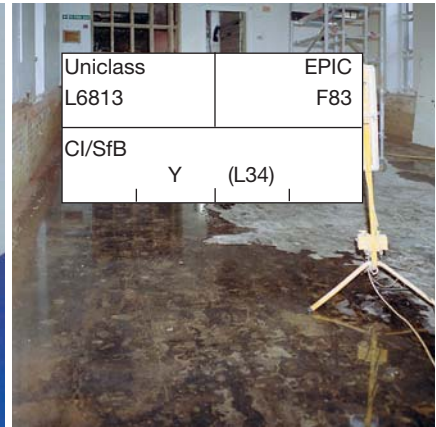


Construction



Waterproofing of Below Ground Structures New & Refurbishment Proven solutions from Sika®

- 90+ year track record
- Environmentally friendly
- Long term solutions
- Suitable for all build types
- Fast track transformations
- Commercial & domestic use



Selecting the most appropriate waterproofing system

To meet the design standard of BS8102-1990 Code of practice for protection of structures against water from the ground

Typical Structures & Requirements



Grade 1 Basic utility. Basement Car Parks. Plant rooms (excluding electrical equipment).
BS 8102: Grade 1 Slight seepage and damp patches are tolerable.



Grade 3 Ventilated residential and working areas including offices, restaurants and leisure facilities.
BS 8102: Grade 3 A dry environment is required and water penetration is intolerable.



Grade 2 Residential and Commercial Basements. Workshops, plant rooms and retail storage where a drier environment is required.
BS 8102: Grade 2 No water penetration but moisture vapour tolerable.



Grade 4 Use for archives, storage of sensitive material, i.e. computer rooms.
BS 8102: Grade 4 A totally dry environment. Vapour impermeable.

All of the 4 grades of use can be created by incorporating a selection of **Sika®** products for types A, B or C form of construction as described in B.S.8102

Sika® Solutions for the 3 Types of Basement Construction

Type A Construction

Tanked protection

- **Sika® 1** pre-bagged waterproofing system for deep basements. (exceeding 4.0m)
- **Sika® Damp Proof Slurry** for shallow basements
- **Sika® Epocem®/SikaGard®** resin systems for grade 4 installations.
- **SikaDur® Combiflex®** jointing system

Type B Construction

Structurally integral protection

- **Sika-1® Watertight** concrete system
- **Sikament®** capillary pore-blocking system
- **Sikaswell®** sealing profiles
- **Sika® Combiflex** jointing system
- **Sika® Rascor®** white tank system

Type C Construction

Drained protection

- **HDPE or Polypropylene Cavity** drainage membranes
- **Sika® Cavity Drainage System.** pump kits and battery back up
- **Sika® CD Membranes**
- **Sikaswell®** sealing profiles

Type A Construction: Tanked protection

Constructed of reinforced, pre-cast concrete or masonry designed to withstand potential imposed loadings (ie. rising water table).

SOLUTION: Sika®-1 pre-bagged mortar waterproofing system

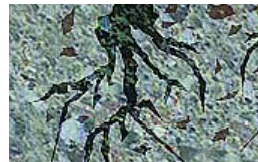
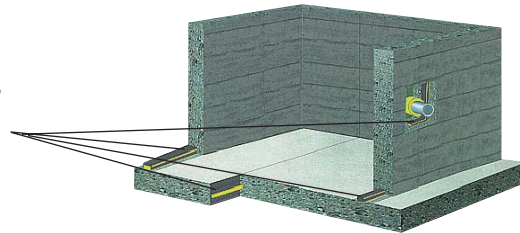
- **Sika®-1**
Colloidal silicate pore blocker
- **Sika®-1**
Spritz, render, finish, pre-bagged wall mortars
- **Sika®-1**
Pre-bagged floor screed mortar for fast installation
- **Sika® EpoCem®**
Epoxy cement hybrid damp proof membranes
- **Sika® Primer MB**
Epoxy based moisture barrier
- **SikaDur® Combiflex® Jointing system**



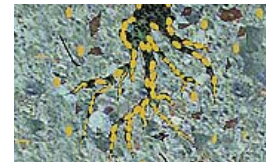
Type B Construction: Structurally integral protection

- Ideal for new construction
- Less excavation - no overdig
- Fast integral construction
- No protection required
- **SikaSwell®** jointing technology

SikaSwell®
Jointing
System



Concrete capillaries without
Sika®-1 pore blocker

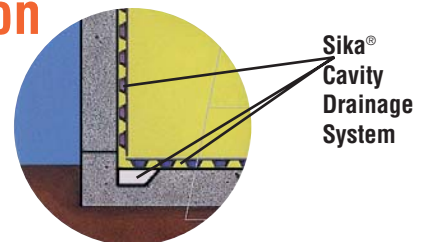


Concrete capillaries lined
and blocked with **Sika®-1**
pore blocker

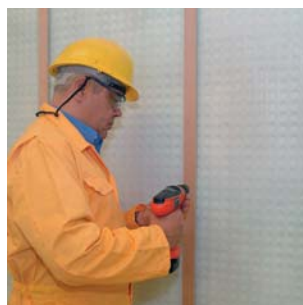


Type C Construction: Drained protection

- **Sika® Cavity Drainage System**
HDPE or polypropylene membranes
- No pressure build up due to water diversion
- Minimal surface preparation
- Suitable for dry lining or plaster finish
- Controlled drainage available
- Water, vapour and gas impermeable
- Fast track installation - immediate redecoration



Sika®
Cavity
Drainage
System



Additional Sika® Technologies and Solutions for Waterproofing Buildings and Facades

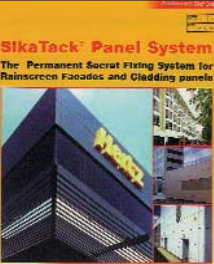
Construction



SikaTack® One Part Polyurethane Sealants for Construction Professionals in both Civils and Buildings.
A guide for their selection and use

- ▲ Single Component High Performance Sealant
- ▲ Permanent Elastic Sealant
- ▲ Long Term Elasticity
- ▲ High Tensile Strength
- ▲ Durability


Construction



SikaTack® Panel System
The Permanent Scaffolding System for Rainscreen Facades and Cladding panels

- ▲ Simple installation using one part materials
- ▲ Permanent elastic structural bonding
- ▲ Allows differential movement
- ▲ Protects facade panels
- ▲ No secondary fixings
- ▲ Construction free - no shoring
- ▲ Internal or external use


Construction



Sika® Membran System
For Sealing and Waterproofing Construction Joints in Building Facades


- ▲ Waterproof and Airtight Flexible Seal
- ▲ Qualified System Reference
- ▲ Ready to use Building Substrate
- ▲ Proven in International Construction

Construction




Sika® Vapour Barrier System

Construction



Sika® Primer MB
Moisture Barrier and Pretreatment for SikaBond® Adhesive Systems

Construction



Sika® Damp-proofing Slurry

- ▲ Ready to use (small area)
- ▲ Penetrating treatment
- ▲ Stops minor water infiltration
- ▲ No cracks, leaks, water marks
- ▲ Can be overpainted

Ready to use Ventillating Plasters



SikaMur® Dry SikaMur® Finish

- ▲ Essential slaying of damp masonry
- ▲ LEAK STOPPAGE
- ▲ Reinforcement reduces D.P.O. transmission
- ▲ Effective against saline damp
- ▲ High permeability allows water
- ▲ Improved health and appearance

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 Product Data Sheet for the product concerned, copies of which will be supplied on request.

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