

WATERPROOFING

Sika BentoShield® MAX LM FULLY-BONDED, SELF-HEALING WATERPROOFING SYSTEM

TECHNOLOGY AND SYSTEMS

BUILDING TRUST



Sika BentoShield® MAX LM

THE FULLY-BONDED AND SELF-HEALING WATERPROOFING SYSTEM

BASEMENTS AND OTHER BELOW-GROUND STRUCTURES that are exposed to aggressive ground conditions and stress, or spaces requiring a completely dry internal environment, demand reliable, high-performance waterproofing solutions. The function of the waterproofing should also be engineered to include protection of the concrete structure itself against potentially harmful influences of aggressive natural mediums and gases in soil, groundwater or seawater.

Sika BentoShield® MAX LM is a fully-bonded, self-healing waterproofing system. It is a polymer-modified natural sodium bentonite, needle-punched membrane with integrated PE flexible laminate. The sealing technology of Sika BentoShield® MAX LM combines the unique swelling performance of sodium bentonite with high-strength polypropylene geotextiles.

During the innovative manufacturing process, millions of fibres of non-woven geotextile are punched through the bentonite layer and all layers are interlocked with each other, securing a uniform and impermeable layer of bentonite. The geotextile also provides unparalleled wear and damage protection.

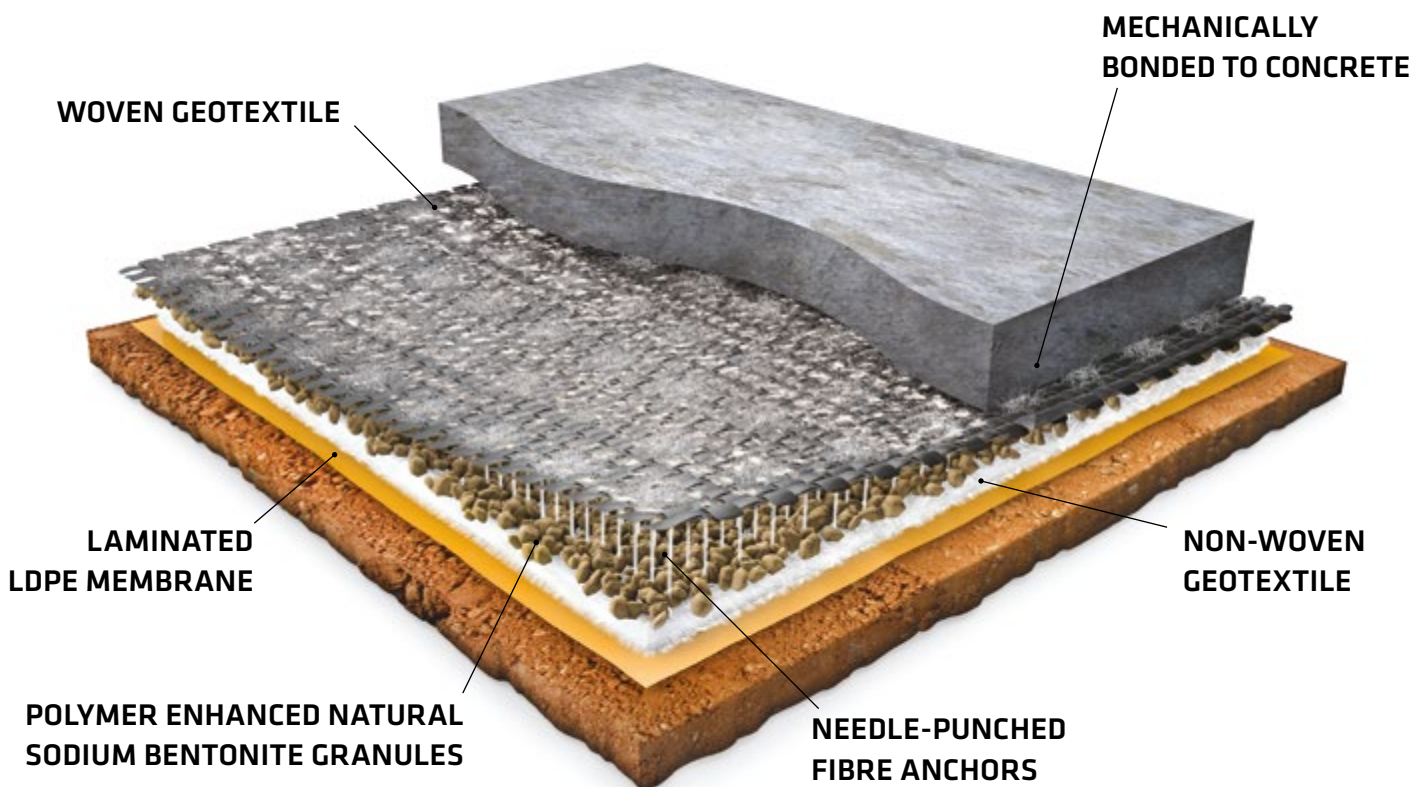
The key attribute of Sika BentoShield® MAX LM is its ability to self-heal, which cannot be matched by other bituminous, paint-on or plastic waterproofing methods. The unique

bentonite clay component of Sika BentoShield® MAX LM is able to swell and seal all cracks and minor holes.

BENEFITS

- One responsibility from Single Source Supplier - Sika's full range of waterproofing solutions now include Sika BentoShield MAX LM
- Peace of mind - Ten year guarantee with site support and toolbox talks from waterproofing specialists
- Risk reduction - New watertight sealed lap technology and a specially designed laminated layer
- Not all systems are the same - BBA accredited system to the new higher standards, the first system tested to BS EN 1928
- Self healing puncture resistant natural sodium bentonite tanking in accordance with BS 8102:2009 and designed to resist contaminated and saline ground water*

*It is a requirement that groundwaters are tested and verified prior to the system application.



TYPICAL APPLICATIONS AND ACCESSORIES

TYPICAL APPLICATIONS

Sika BentoShield® MAX LM waterproofing system can be used for new structures, renovating existing basements and a variety of more demanding applications, whether you want to keep water in or keep water out.

APPLICATIONS

- Basements
- Tunnels
- Diaphragm walls
- Underslab applications including pile caps and penetrations.



ACCESSORIES



FIXINGS AND TAPES

The SS50 tape is a 50mm wide, single sided butyl tape for sealing the laps, penetrations and other details. The Termination Strip is a 12mm x 10m galvanised steel bonding strip used to fix the top edge of Sika BentoShield® MAX LM waterproofing membrane on wall sections.



GRANULES

Chemically treated sodium bentonite granules especially placed in overlap zones and critical areas for additional sealing. When hydrated, it reinforces the overlap areas by forming an impermeable and seamless layer.



PASTE

A trowel grade sodium bentonite compound used especially as a detailing mastic around penetrations and corner transitions. After applying on details, Sika BentoShield® MAX LM can be installed without a waiting period.



FIXINGS

The Sika recommended fixing system is a fast, secure and safe method for securing Sika BentoShield® Max LM. 38mm extra hard steel nails and 36mm impact resistant washers are fixed with the licence-free gas fixing tool.

Our guarantees are watertight...

- **10-YEAR GUARANTEE** when used as a single system.
- **15-YEAR GUARANTEE** when used in a dual system in conjunction with Sika Watertight Concrete or Sika Cavity Drainage system.



SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



LIQUID APPLIED ROOFING



SINGLE PLY ROOFING



CONCRETE



CONCRETE REPAIR



STRUCTURAL STRENGTHENING



WATERPROOFING



JOINT SEALING



FAÇADE STRUCTURAL ADHESIVES



FLOORING



INDUSTRY



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WHO WE ARE

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specialising in the manufacture and supply of chemical based products. Sika have a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing, and protecting in the building sector and the motor vehicle industry. Sika has subsidiaries in 100 countries around the world and manufactures in over 200 factories. With more than 18,000 employees Sika generates annual sales of CHF 6.25 billion (£4.76bn). We are also committed to providing quality, service, safety and environmental care.

In the UK and Ireland, we provide market-leading solutions for concrete, waterproofing, roofing, flooring, refurbishment, sealing & bonding, and industry, and have manufacturing sites in Welwyn Garden City, Preston, Leeds and Dublin with more than 865 employees and a turnover of more than £240 million.

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. Please refer to our homepage www.sika.co.uk for our current standard terms & conditions applicable to all orders. 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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