

SURFASEAL BENTOMAX CS

Product Information Page

SURFASEAL Bentomax CS is a sodium-bentonite granulated powder composite waterproofing membrane, designed for use in both vertically and horizontally applications in below-ground reinforced concrete structures.

SURFASEAL Bentomax CS consists of a bed of sodium-bentonite granulated powder encapsulated between a mechanically bonded non-woven geotextile and a woven geotextile with an additional black polyethylene sheet bonded on the back.

Specification Tip for Design Professionals:

SURFASEAL Bentomax CS may be specified by name or by using the following description: *a propriety waterproofing membrane consisting of sodium-bentonite granulated powder encapsulated between a mechanically bonded non-woven geotextile and a woven geotextile with an additional black polyethylene sheet bonded on the back.*



- ✓ Tough and resistant
- ✓ Seals small cracks in the concrete
- ✓ Demonstrates self-healing properties
- ✓ Higher puncture and tear resistance compared to conventional foils and coatings
- ✓ Quick and easy to install without complicated welding equipment
- ✓ Can be installed in every season independently of temperature and weather conditions
- ✓ Quality control tests to ensure consistent high quality
- ✓ Offers protection against Methane, Carbon Dioxide, Radon and other gases in excess of the requirements in BRE Reports 211 and 212
- ✓ May be installed pre-or post-form

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How does SURFASEAL Bentomax CS work:

Penetrating water causes the sodium bentonite granulates to hydrate and swell producing an impermeable membrane which is self healing, and can seal any small cracks in the concrete.

How do I prepare the surface:

The substrate onto which SURFASEAL Bentomax CS is to be placed should be sound, well compacted and without voids or deflections which are greater than 20mm.

How do I install SURFASEAL Bentomax CS:

SURFASEAL Bentomax CS should be placed on a properly prepared flat surface, with the open-side facing the concrete to be waterproofed. The edges of the membrane should be overlapped by 100mm and the ends of the rolls staggered by 300mm. The overlaps should be detailed using or SURFASSEAL Bentonite Powder or SURFASEAL Bentonite Paste /Adhesive. The minimum thickness of the reinforced concrete used should be 150mm.

Backfilling

Backfilling should be clean, well graded and compacted every 300mm. It should be free from construction debris.

How do I store SURFASEAL Bentomax CS:

SURFASEAL Bentomax CS should be stored off the ground in dry conditions.

Packaging:

1.25 x 5m Standard Rolls Larger rolls are available upon request.

Technical Data overleaf.

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TECHNICAL DATA:	Test Method (based on)	Value
Mass per Unit Area (Average)		
Carrier Layer – PP Woven	EN ISO 9864	100 g/m ²
Inlay – Sodium Bentonite	EN 14196	5,000 g/m ²
Cover Layer – PP Nonwoven	EN ISO 9864	200 g/m ²
Bentonite Properties		
Montmorillonite Content	CUR 33	75% minimum
Swelling Index	ASTM D 5890	24 ml/2g minimum
Moisture Content	DIN 18121-1	12% maximum
Physical Properties of the Composite		
Thickness	EN ISO 9863-1	7.6mm
Index Flux	ASTM D 5887	Non measurable
Permeability	ASTM D 5887	Non measurable
Tensile Strength MD	EN ISO 10319	10,4 kN/m (-10%)
Tensile Strength CMD	EN ISO 10319	10,4 kN/m (-10%)
Grab Strength	ASTM D 4632	667 N (-10%)
CBR Puncture Strength	EN ISO 12236	1.8kN (-10%)
Peel Strength	ASTM D 6496	60N/10 com (-10%)

The data provided contains average values derived from standard tests and are subject to standard deviation. The Company reserves the right to make changes to this data at any time.

**In applications where radon/ methane or CO₂ resistance is required SURFASEAL Bentomax CS will act as barrier, against these ground gases, when installed in accordance with BRE Report 414 the membrane will be compliant with the recommendations made in CIRIA C665 : 2007 Assessing risks posed by hazardous ground gases to building, BS 8485 : 2015, BRE Reports 211 & 212 and NHBC Standards. Guidance is given in the Ground Gas Handbook, 2009 and the manufacturer's technical literature.*

Protect the environment: Dispose of waste in accordance with the local authority regulations.

Disclaimer: The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™.

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For further information contact the SURFASOLOGY™ Technical Department.





Smart Surface Solutions

Waterproofing and Damp Proofing Specialists

WHO WE ARE

SURFASOLOGY, formerly IBC Ltd., is Ireland's leading waterproofing and damp proofing specialist that has been proudly providing market leading, innovative, and sustainable construction solutions since 1976.

Our high-quality products and systems are accompanied by our professional technical support and a full installation service. **SURFASOLOGY** technical consultancy team have unrivalled experience in major construction projects, as well as solving everyday problems for homeowners, with long term trustworthy solutions.

Our products are all manufactured in ISO Quality System compliant facilities and meet the relevant local, National, & European standards. **SURFASOLOGY** network members manufacture products exclusively in Germany, Switzerland, Spain, Greece and the UK. We support these products in local markets with highly-qualified technical professionals, who understand both on-site demands and the design detail. We work in a collaborative way with our clients at all stages of the project to ensure that the correct design, preparation, and application are carried out to ensure a timely and successful outcome for all stakeholders.

Get in touch with us today!

**INNOVATIVE, WORLD-CLASS,
SUSTAINABLE CONSTRUCTION
SOLUTIONS, POWERED BY OUR
EXTENSIVE EXPERIENCE AND
EXPERTISE.**

AREAS OF EXPERTISE

Structural Waterproofing

Our world class solutions encompass the whole building envelope both above and below ground.

Damp Proofing & Remedial

A comprehensive range of first class damp proofing and timber treatment solutions.

Specialist Screeds & Coatings

High quality floor finish on domestic, commercial, under-floor heating or industrial projects.

Concrete Repair

We offer a highly efficient selection of products for the repair and protection of concrete elements.

WHAT WE DO

Material Supply

Reliable and sustainable surface solutions accompanied by unrivalled technical support.

Installation Service

Specialised installation service provided by our approved contractors delivering high quality workmanship you can trust.

Technical Support

Extensive experience and expertise in Project Design and Technical Support Services ensuring reliable outcomes for all our clients.

CPD Seminars

RIAI and RIBA approved CPD Seminars to specifiers on a variety of topics covering structural waterproofing and damp proofing.

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