BUILDING TRUST

PRODUCT DATA SHEET

SikaProof®-730 UVS

(formerly MSeal 730UVS)

PRE-APPLIED FULLY BONDED HDPE WATERPROOFING MEMBRANE FOR BELOW GRADE WATER-PROOFING

DESCRIPTION

SikaProof®-730 UVS is an HDPE membrane with unique pressure sensitive adhesive and a state of the arts top film which enable good chemical adhesion with concrete surface.
SikaProof®-730 UVS forms a unique integral seal around the concrete poured against it, prevents water ingress even under high hydrostatic pressure and prevents lateral water migration as well.
SikaProof®-730 UVS remains fully adhered to concrete (i.e. monolithic) helping retain its performance even when there is ground settlement beneath the slabs

USES

SikaProof®-730 UVS is intended for use in below grade waterproofing applications such as basements rafts and confined retaining walls with high water table and cut & cover structures (e.g, tunnels) and allows efficient use of confined sections.

CHARACTERISTICS / ADVANTAGES

- Fully Adhered to Poured Concrete – Prevents later water migration between concrete and membrane
- Unaffected by hydrostatic pressure – Can be used in high water table areas
- Unaffected by Contamination – Does not require any special protection during construction – can be easily cleaned with water and high-pressure air
- Simple and Easy to Install – Does not require special tools and welding techniques
- Chemically resistant – Can be used in all soil and sub-soil conditions, even if contaminated with salts.
- Fully adhered watertight laps – Ensures water tightness.

PRODUCT INFORMATION

Packaging	20 m x 1.0 m / Roll 30 m x 1.2m / Roll
Shelf Life	12 months if stored in original containers
Storage Conditions	Under dry conditions at a temperature between 10 - 30°C.
Colour	White
Thickness	1.2 MM

TECHNICAL INFORMATION

Resistance to Static Puncture	1000 N	(ASTM E 154)
Tensile Strength	25.0 MPa	(ASTM D 412)

Elongation	500 %		(ASTM D 412)
Adhesion in Peel	**Concrete** 1.8 N/mm	**Heat Aged Surface (50°C)** 1.5 N/mm	(ASTM D 903)
Dimensional Stability	≤ 0.5		(SS 374-1994)
Flexibility at low temperature	Pass		(-25°C, ASTM D 1970)
Resistance to lateral water migration	71 M		(23, ASTM D 5385)
Resistance to Water Penetration	71 M		(Hydrostatic Head,ASTM D 5385)
Retention of Properties after Heat Ageing	**Tensile** 90 %	**Elongation** 80 %	(ASTM D 412)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

It is essential to create a sound and solid substrate to eliminate movement during the concrete pour. Substrates must be regular and smooth with no gaps or voids. Grout around all penetrations for stability.

Horizontal Blinding
The blinding must be free of loose aggregate, voids, surface irregularities and sharp protrusions. The surface needs to be in a touch dry condition. SSD condition (no standing water) is also acceptable

Vertical Surfaces
The vertical surfaces should have proper levelled brickwork, blockwork, or formwork without any irregularities. For the case of sheet piles, the substrate should be made regular with a smooth finished shotcrete or sacrificial formwork to be installed

APPLICATION

Pouring of Concrete
Kindly ensure that the plastic liner of the membrane is removed prior to placement of reinforcement. It is recommended that concrete is poured within 5 weeks after the HDPE membrane has been laid on the subbase (e.g. PCC). Care should be taken to avoid any damage to the membrane during laying steel reinforcement, consolidation, and compaction of concrete.
Additionally, during placement of concrete, the vibrator needle should not touch the placed HDPE membrane.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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