

PRODUCT DATA SHEET

SikaProof®-730 PA

(formerly MSeal 730PA)

Pre-Applied Fully Bonded HDPE Waterproofing Membrane for below grade waterproofing

DESCRIPTION

SikaProof®-730 PA is a HDPE membrane treated with unique pressure sensitive adhesive and a state of the arts top film which enable good chemical adhesion with concrete surface.

SikaProof®-730 PA 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 PA remains fully adhered to concrete helping retain its performance even there is ground settlement beneath the slabs

USES

SikaProof®-730 PA is intended for use in below grade waterproofing applications such as basements with high water table and cut & cover tunneling.

CHARACTERISTICS / ADVANTAGES

- Fully Adhered to Poured Concrete – Prevents water migration
- Unaffected by wet conditions – Enables application 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
- Simply and Easy to Install – Does not require special welding techniques
- Chemically resistant – Can be used in all Soil and Sub-soil conditions
- Fully adhered watertight laps – Ensures water tightness

PRODUCT INFORMATION

Packaging	1.2 x 20 m rolls	
Shelf life	12 months from date of production if stored properly in unopened, original packaging.	
Storage conditions	Store in dry conditions between +5 °C to +30 °C. Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice.	
Thickness	1.2 mm	
Resistance to Static Puncture	≥ 1000 N	(ASTM E154 Modified)
Tensile Strength	≥ 25 N/mm ²	(ASTM D412)
Elongation at break	≥ 500 %	(ASTM D412)
Adhesion in Peel	≥ 2.4 N/mm (to concrete)	(ASTM D903 Modified)

	Peel Adhesion (to concrete), heat aged Surface (70 °C): ≥ 2.0 N/mm	(ASTM D903 Modified)
Resistance to tear (nail shank)	Nail Shank Resistant: ≥ 500	(EN12310-1)
Joint Peel Resistance	1.0 N/mm (23 °C) After immersing water, at 23 °C: 1.0 N/mm	(ASTM D1876 modified) (ASTM D1876 modified)
Seam Strength	Lap peel to HDPE sheet, 23 °C Lap peel to HDPE sheet, 4 °C	≥ 1.0 N/mm ≥ 1.0 N/mm
Dimensional Stability	≤ 0.5 %	(SS 374-1994)
Flexibility at low temperature	Pass (at -25 °C)	(ASTM D1970)
Resistance to lateral water migration	71 m (23 °C)	(ASTM D5385 modified)
Resistance to Water Penetration	71 m	(ASTM D5385 modified)
Effect of Liquid Chemicals, Including Water	Storage in Aqueous Solutions: Tensile Strength Retention: ≥ 90% Puncture Resistance Retention: ≥ 90% Elongation Retention: ≥ 90%	(DIN 16726)
System Structure	<ul style="list-style-type: none"> ▪ SikaProof®-936, the double-sided sticky tape is supplied in rolls of 80mm width and 50m length. ▪ SikaProof®-937, the single-sided sticky tape is supplied in rolls of 120mm width and 50m length. 	

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 and for stability.

Horizontal blinding

The blinding must be free of loose aggregate and sharp protrusions. The surface does not need to be dry but standing water should be removed.

Vertical surfaces

Use proper facing such as concrete, plywood to sheet piling to provide proper support to the membrane.

APPLICATION

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Membrane Repair

Inspect the membrane before placing the formwork, steel reinforcement or pouring of concrete. If any damages are found in the membrane the same shall be repaired with SikaProof®-937 tapes from our Sika brand.

Pouring of Concrete

Ensure the plastic liner is removed before the concrete is poured. It is recommended that concrete is poured within 60 days. Care should be taken to avoid any damage to the membrane during the consolidation and compaction of concrete. Additionally, during placement of concrete, the vibrator or needle should not touch the placed HDPE membrane.

Contact our Sika representative for further support.

LOCAL RESTRICTIONS

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

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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