

PRODUCT DATA SHEET

SikaShield®-722

(formerly MSeal 722)

Self-adhesive, polymer-modified bituminous waterproofing membrane

DESCRIPTION

SikaShield®-722 is a self-adhesive SBS polymer modified bituminous waterproofing sheet membrane, with a cross laminated HDPE film on one side and a silicone release film on the other

USES

SikaShield®-722 is recommended for waterproofing or damp-proofing for concrete protection. It may be used for horizontal and vertical application for tanking below ground structures, subways and retaining walls

CHARACTERISTICS / ADVANTAGES

- Cold applied, self-adhesive and easy to apply.
- Excellent adhesion to vertical and horizontal surfaces.
- Excellent resistance to chlorides, sulphates, dilute alkalis and acids.
- Good tear and puncture resistance

PRODUCT INFORMATION

Product declaration	Bonded sheet membrane according to IS 16471 : 2017		
Construction	Compound	SBS modified bitumen	
	Top layer	Cross laminated HDPE film	
	Bottom layer	Release liner PE film	
Packaging	Roll width	1.0 m ± 0.01 m	(EN 1848-1)
	Roll length	20.0 m ± 0.2 m	

Shelf life	12 months from date of production	
Storage conditions	The product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position in pallets with maximum height 1 meter. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Protect from long exposure to direct sunlight.	
Mass per unit area	Membrane Thickness (Composite)	Areal Weight
	1.5 mm	1.6 kg/m ²
	2.0 mm	2.1 kg/m ²

TECHNICAL INFORMATION

Resistance to static puncture	≥ 280 N	(ASTM E154)
Important Note :All Technical Values/Information given in the Product Data Sheet are for 1.5 mm composite thickness membrane		
Tensile strength	Tensile strength of membrane - (ASTM D 412)	≥ 4 N/mm ²
	Tensile strength of HDPE film (L/T)- (ASTM D 882)	≥ 48/42 N/mm ²
Elongation	≥ 300%	(ASTM D412)
Resistance to tear (nail shank)	Tear Resistance of Membrane (L/T) - (ASTM D 624)	≥ 25/33 N/mm
	Tear Resistance of HDPE film (L/T) - (ASTM D 624)	≥ 160/155 N/mm
Flexibility at low temperature	No cracks at -15 °C	(ASTM D1970)
Softening point	> 102 °C	(ASTM D36)
Water tightness	No Leakage @ Hydrostatic Pressure of 7 Bar	(BS EN 5385 - 2000)
Water vapour transmission	< 0.3 g/m ² /24 hours	(ASTM E96)
Chemical resistance	Resistant to 10% NaCl, Ca(OH) ₂ , H ₂ SO ₃	(EN 1847:2009)

APPLICATION INFORMATION

Ambient air temperature	+5 °C min. / +45 °C max
Substrate temperature	+5 °C min. / +45 °C max

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.

FURTHER DOCUMENTS

One roll of SikaShield®-722 after deducting for the overlaps, covers an area of 18.7m x 0.98m. i.e. approximately 18.33 m² per 20mx1m roll. However, slightly reduced area coverage may occur while treating oddly shaped areas or where many joints are required

IMPORTANT CONSIDERATIONS

Important Note :The Technical Values/Information given in the Product Data Sheet are for 1.5mm composite thickness membrane

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

The application temperature should be between 4°C to 45°C. Application procedures may vary slightly depending upon site conditions. The general recommended guidelines for the application of the self-adhesive waterproofing system is as follows:

Surface Preparation

The surfaces shall be cleaned thoroughly of all contaminants like dust, traces of curing compound, oil and grease. All surface imperfections, protrusions, structurally unsound and friable concrete must be removed and repaired. Fill surface irregularities such as blowholes, honeycombs etc. with Sika® repair mortars to achieve a smooth and level surface. Repair cracks either by resin injection or by caulking depending on the nature of cracks. Where needed, provide expansion joints and seal them with our range of construction sealants (Refer to individual product data sheets). Consult Sika® Technical Services team for advice on repair methods

Priming

Use suitable SikaShield® bituminous primer (water/solvent based as applicable) by brush or roller over the prepared substrate as per the respective Product Data sheet recommendations.

Lay the membrane after the primer reaches touch dry state. Prime only an area that can be covered within the same working day.

Alignment

Start the installation of all membrane plies from the low point or drains, so that the flow of water is over or parallel to the ply, but never against the laps. All overlaps at the membrane seams shall be installed so as to have "up" slope laps over "down" slope laps. Begin membrane application by unrolling the roll of SikaShield®-722 membrane and aligning the side laps.

Placing

It is important to lay the membrane without creases. Peel back the release paper to a length of about 30cm and stick the membrane onto the prepared substrate, starting preferably from one end of the areas. Unwind the roll in a straight line, without creasing by pulling the release paper carefully. Using a rubber roller, simultaneously smooth the membrane from the center outwards to the edges for optimum adhesion and to expel any entrapped air. After one roll has been installed and smoothed, lay the next roll with at least 100mm overlap at the ends and 50mm along the edges. Ensure total bonding at the overlap by using the roller.

Note: The detailing at external and internal corners

and penetrations of pipes, cables, ducts, etc. must be carefully carried out before commencing application of horizontal sections of the membrane. While covering vertical faces, always start from the top. Chase the membrane into a groove or temporarily batten it to prevent it from falling while laying. The battens can be removed after the whole face has been covered. Provide suitably designed flashings at the grooves where the membrane is chased in, over the membrane edge on the vertical surface and above every projection from the vertical surface such as pipe lines, ventilators, air conditioners, etc. Consult

Sika® Technical Services team for advice.

At the corners, between the vertical and horizontal, maintain an overlap of at least 100mm. It is recommended that the horizontal area is laid first, followed by the vertical, so that the vertical membrane laps over the horizontal one. If the membrane has ballooned at a few spots after laying, due to entrapped air or water, puncture the bubbles with a sharp needle. The pinholes will heal by themselves during the smoothing process.

Protection

Temporarily protect the membrane from mechanical damage during application using polystyrene boards or similar approved methods.

After completion, protect the membrane by a screed, paving, soil infill or by lining with tiles to prevent mechanical damage in service

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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