

BUILDING TRUST

PRODUCT DATA SHEET

SikaProof® P-12

FPO SELF ADHESIVE SHEET MEMBRANE FOR POST-APPLIED FULLY BONDED BELOW GROUND WATERPROOFING

DESCRIPTION

SikaProof® P-12 is a flexible polyolefin (FPO) self-adhesive sheet membrane for post-applied fully bonded below ground waterproofing of reinforced concrete structures. Membrane thickness 1.2 mm. SikaProof® P-12 is pre-coated with an adhesive sealant layer and is cold applied onto primed concrete structure by a simple peel and stick process by using SikaProof® Primer-01 as a system primer.

USES

SikaProof® P-12 may only be used by experienced professionals.

Damp-proofing, waterproofing and concrete protection for basements and other below ground structures against ground water ingress. Suitable for use on:

- Horizontal reinforced concrete slabs, decks and podiums
- Vertical reinforced concrete walls
- Extensions and reconstruction works
- Prefabricated structures

CHARACTERISTICS / ADVANTAGES

- Post-self-adhered, fully bonded on existing reinforced concrete structures
- No lateral water underflow between the concrete structure and the membrane system
- High flexibility and crack-bridging
- Validated high watertightness
- Easy to install with fully adhered joints (no welding required)
- Cold applied (no heat or open flames)
- Good tear and impact resistant properties
- Temporarily resistant to weathering and UV-light during construction
- Highly durable and resistant to aging
- Resistant to aggressive elements in natural ground water and soil
- Can be combined with other approved Sika Waterproofing / Joint Sealing Systems

ENVIRONMENTAL INFORMATION

■ BRE Environmental Product Declaration (EPD)

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 13967 - Flexible sheets for waterproofing – Damp proofing and basement tanking
- Agrement Certificate, SikaProof® P, BBA Certificate No.13-5075
- Functional testing of watertightness, WISSBAU, Report No.2013-253
- Test Certificate, Sika Proof®P-12, MPANRW, No.P-22-MPANRW-2211463-1

PRODUCT INFORMATION

Chemical Base	Membrane Layer: Sealant/adhesive:	Flexible Polyolefin (FPO) Polyolefin (PO)

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Packaging	Rolls wrapped individually	•	
	Roll width	Roll length	
	1.00 m	20 m	
	Refer to current price list	for packaging variations	
Appearance / Colour	Light yellow sheet membr side.	ane with a white release fi	lm on the adhesive
Shelf Life	12 months from date of pr	roduction	
Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between + 5 °C and + 30 °C. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.		
Product Declaration	EN13967 - Flexible sheets for waterproofing – Damp proofing and basement tanking		
Effective Thickness	Total Thickness (= deff)	1.20 mm (-5 /+10 %)	(EN 1849-2)
	Membrane Thickness	0.60 mm	
Mass per Unit Area	1.20 kg/m ²	(-5 /+10%)	[EN 1849-2]
TECHNICAL INFORMATION			
Resistance to Impact	≥ 200mm		[EN 12691, Method A]
Resistance to Root Penetration	Pass		[CEN/TS 14416]
Tensile Strength	Machine direction: Cross direction:	≥ 6.0 N/mm ² ≥ 6.0 N/mm ²	[EN 12311-2]
Modulus of Elasticity in Tension	≤ 35 N/mm2	(+/- 10%)	[EN ISO 527-3]
Elongation	Machine direction:	≥ 350 %	[EN 12311-2]
-	Cross direction:	≥ 350 %	
Adhesion in Peel	≥ 100 N/50mm (on primed	d concrete)	[EN 1372]
Resistance to tear (nail shank)	Machine direction:	≥ 200 N	[EN 12310-1]
	Cross direction:	≥ 200 N	
Joint Shear Resistance	≥ 125 N/50mm		[EN 12317-2]
Crack Bridging Ability	Class A 5, no cracks		(DIN EN 1062-7)
Foldability at Low Temperature	- 30 °C		(EN 1109)
Reaction to Fire	Class E		[EN 13501-1]
Accelerated Ageing in Alkaline Environ-	Pass (28 d/+23 °C)		(EN 1847)
ment Tensile Strength	Pass (Method B, 24 h / 60	kPa)	(EN 1928)
Water Vapour Transimission	0.50 g/m² x 24h		[EN 1931] (+23 °C/
	$\mu = 58'000$	(+/- 20 %)	75 % r.h.)
	sd = 78 m		
Water Tightness	Pass (Method B, 24h/60kPa)	Pass (Method B, 24h/60kPa)	(EN 1928)
Resistance to lateral water migration	Pass, up to 7 bar		[ASTM D 5385 modified]





Durability of Water Thightness against Ageing	Pass (12 weeks)	(EN 1296)
	Pass (Method B, 24 h / 60 kPa)	(EN 1928)
Durability of Water Tightness against Chemicals	Pass (28 d/+23 °C)	(EN 1847)
	Pass (Method B, 24 h / 60 kPa)	(EN 1928)
Ambient Maximum Temperature of Liquids	-10 °C min. / +35 °C max	
Service Temperature	-10 °C min. / +35 °C max	
SYSTEM INFORMATION		

System Structure	The following system products must be used: SikaProof® P-12 sheet membrane SikaProof® Primer-01 Ancillary products:
	 Accessories and complementary products are available to provide detailing and connection solutions.

APPLICATION INFORMATION

Ambient Air Temperature	+ 5 °C min. / + 35 °C max.
Substrate Temperature	Substrate bonding surface: minimal +5 °C (Refer to important considerations for more information)
Substrate Moisture Content	≤ 6 % parts by weight. No rising moisture
Dew Point	The substrate temperature must be at least 3°C above the dew point to reduce the risk of condensation and reduced adhesion.

APPLICATION INSTRUCTIONS

EQUIPMENT

- Tape measure
- Marking pen
- Razor knife
- Scissors
- Pressure roller
- Clean lint-free cloth
- Metal straight edge for cutting
- Protective sheet for cutting

SUBSTRATE QUALITY

Concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm2) with a minimum tensile adhesion strength of 1,5 N/mm2. Substrate must be even, level, clean, dry and free of all contaminants such as dirt, oil, grease, surface treatments and loose friable material.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

APPLICATION METHOD / TOOLS

Substrate preparation

If the substrate does not fulfil the requirements the surface must be pre-treated prior to the application, in order to prevent any subsequent damage to the membrane sheets. The use of SikaProof® Primer-01 is required to ensure an optimal, durable bond to the substrate (this primer is a defined system component).

Installation procedure

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

Installation method - General

After substrate conditions and priming have been fulfilled, the waterproofing membrane is installed by peel & stick method onto horizontal / inclined / vertical hardened concrete substrates. The membrane sheets are overlapped with the following sheet. No heat or open flames are required for installing any part of the membrane system.

T-joints, transitions and corners

All T-joints and transitions must be sealed additionally with a strip or patch of SikaProof® ExTape-150.

Detailing

Form all details and connections using the appropriate SikaProof® ancillary products outlined in the 'Method Statement - SikaProof® P

Construction and expansion joints

For sealing these types of joints, use additional Sika® Joint Solutions.

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Inspection and quality control of installation

A final inspection before protecting and backfilling must be carried out to ensure the complete membrane system has been correctly installed, and any damage repaired.

Backfilling protection

After installation is completed SikaProof® P-12 system must be protected with an appropriate protection sheet as soon as possible or at the latest within 90 days or before backfilling.

LIMITATIONS

Installation work must only be carried out by Sika® trained, approved or competent contractors experienced in this type of application.

- Do not use in hot climate areas.
- Reference must also be made to the 'Method Statement SikaProof® P' for more detailed information.
- Do not install SikaProof® P-12 membranes during continuous or prolonged rain and snowfall.
- For the optimum fully bond of the SikaProof® P-12 system, an adequate concrete and substrate quality including the use of SikaProof® Primer-01 is required.
- If SikaProof® P-12 has to be applied under wet conditions or temperatures below +5°C. Exceptions are possible under special circumstances with appropriate precautions. Contact Sika® Technical Services for more information.
- After the installation is completed, it is recommended to protect the SikaProof® P-12 membrane immediately to prevent any mechanical damage.
- The SikaProof® P-12 membrane is not permanently UV and weather resistant. Therefore the membrane system must not be installed on structures permanently exposed to UV light and weathering.
- The membrane must be protected with appropriate protection sheets as soon as possible or at the latest before backfilling or within 90 days after installation.
- SikaProof® P-12 is not designed for use on structures exposed to direct traffic impact.
- Additional joint sealing using Sika® Joint Sealing Solutions is recommended for connections, around penetrations and for constructions and expansion joints.
- To ensure the most suitable type of membrane is selected for the project, refer to section 4 'Project Design' of the 'Method Statement SikaProof® P System' or contact Sika® Technical Services for more information.

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.

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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.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet.Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

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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