

SikaProof® P-1201 System

Fully Bonded, Post-Applied FPO Sheet Membrane Waterproofing System for Basement and Below Ground Structures

Description	SikaProof® P-1201 System is a fully bonded composite sheet membrane waterproofing system for reinforced concrete structures. It consists of an embossed flexible polyolefin (FPO) based membrane SikaProof® P-1200 and an 2 component PU adhesive SikaProof® Adhesive.
Where To Use	Damp-proofing, waterproofing and concrete protection for basements and other below ground structures against ground water ingress. Suitable for use on: <ul style="list-style-type: none"> ▪ Vertical reinforced concrete walls horizontal reinforced concrete slabs, protrusions, decks and podiums ▪ Extensions and reconstruction works ▪ Prefabricated structures
Advantages	<ul style="list-style-type: none"> ▪ Fully bonded onto the hardened concrete structure ▪ No lateral water underflow between the reinforced concrete structure and the membrane system ▪ Highly flexible with crack-bridging abilities ▪ High watertightness tested according various standards ▪ Easy to install with fully adhered joints (no welding required) ▪ Cold applied (no heat or open flames required) ▪ Temporary resistant to weathering and UV light during construction ▪ Resistant to aging ▪ Resistant to aggressive mediums and gases in natural ground water and soil ▪ Can be combined with other approved Sika® Waterproofing / Joint Sealing Systems
Typical Data Coverage	<p>SikaProof® P-1200 membrane: 1 Roll = 215 sf</p> <p>SikaProof® Adhesive-01 Component A&B mixed:</p> <p>Average Consumption for Vertical applications on smooth, even substrate = minimum 1 kg/10 sf</p> <p>Average Consumption for Horizontal applications = >1 kg/10 sf depending on roughness of substrate</p>

Product Data	ASTM Test Method
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System Components: SikaProof® P-1200

SikaProof® Adhesive-01, Component A,B

Thickness (membrane): 1.2 mm (0.047 in.) ASTM D3767

Tensile Strength (membrane): 2,000 psi min. ASTM D412

Elongation (membrane): 500% min. ASTM D412

Peel Adhesion to Concrete: 30 lbs/in ASTM D903

Lap Peel Adhesion: 18 lbs/in ASTM D1876

Water vapor transmission: 3.45 X 10⁻⁹ g/Pa·S·m² (0.06 perms) ASTM E96

Low temperature: Pass (no cracking @ -29°) ASTM D1970

Puncture resistance: 190 lbs ASTM E154

Crack Cycling: Pass (no cracking at -15°F) ASTM C836

Resistance to Hydrostatic head and Lateral Water Migration: ASTM D 5385 mod.

SikaProof® P-1201 System: ≥7.0 bar (100 psi)

*Results may differ based upon statistical variations depending upon equipment, temperature, application methods, test methods, and actual site conditions.



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Waterproofing

Packaging	SikaProof® P-1200 Roll = 1.0 x 20.0 m SikaProof® Adhesive-01 Component A = Pail 25 kg SikaProof® Adhesive-01 Component B, Hardener = Pail 5 kg
Cure Mechanism	See current Product Data Sheet for SikaProof® Adhesive-01
How to Use	
Surface Preparation	SUBSTRATE QUALITY The reinforced concrete structure must be: <ul style="list-style-type: none">▪ Hardened and of sufficient compressive strength, minimum 3,600 psi▪ Minimal pull off strength, 200 psi▪ Dry, sound, clean and free of any contamination (e.g. dust, oil, grease, release agent, etc.)▪ Free from surface defects (e.g. blowholes, voids, honeycombing, cracks, protrusions, etc.) SUBSTRATE PREPARATION The concrete or other suitable cementitious substrate must meet the defined substrate quality. If the substrate does not fulfil the requirements, the surface must be pretreated prior to the application, in order to prevent any subsequent damage to the membrane sheets. For more detailed information and guidance please refer to the current Method Statement for the SikaProof® P-1201 System system.
Mixing	See current Product Data Sheet for SikaProof® Adhesive-01
Application	The installation method of the SikaProof® P-1201 System is state of the art for adhered membrane systems, by simple and easy bonding of the membrane sheets into a previously applied adhesive bed. The following work steps need to be taken in consideration: <ul style="list-style-type: none">▪ Substrate preparation and cleaning, to fulfill the required substrate quality.▪ Mix the 2c SikaProof® Adhesive-01 according the Product Data Sheet.▪ Apply the adhesive with a notched trowel onto the entire substrate (no primer required).▪ Prepare and apply the SikaProof® P-1200 membrane accordingly.▪ Roll in and press the membrane properly into the fresh applied adhesive.▪ Make sure enough adhesive is left (minimum 1 mm). Overlap and adhere the membrane sheets with the adhesive minimum 90 mm.▪ Treat all details and connections according to the Method Statement.



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Limitations

Ambient Air Temperature: Minimum +40°F / maximum +120°F

Substrate Temperature: Surface to be bonded: Minimum +40°F, if below appropriate measures must be taken.

Substrate Moisture Content: Dry, $\leq 4\%$ moisture content, no rising moisture

SikaProof® P-1201 System must only be installed by Sika trained and approved contractors. The SikaProof® P-1201 System Method Statement, with its technical guidelines and information, must be complied with.

- Do not install SikaProof® P-1201 System during continuous or prolonged rain, snowfall or sand storm.
- The substrate quality and condition must be fulfilled or appropriate treatment or measures must be taken.
- An adequate concrete quality (mix design and workmanship) is required to achieve optimum full bond of the SikaProof® P-1201 System membrane system to the harden structural concrete.
- Additional Sika® Joint Sealing Solutions must be used for connections, around penetrations and in construction and expansion joints.
- Protect the membrane system immediately after installation is completed to prevent any damage.
- SikaProof® P-1201 System is not permanently UV and weather resistant. It must always be protected from exposure within a defined time period depending on the climate conditions and region. Therefore it must not be installed on structures permanently exposed to UV light and weathering. For further information please refer to the current Method Statement of SikaProof® P-1201 System.
- SikaProof® P-1201 System is not designed for use on structures with direct impact of traffic.
- For more detailed information and guidance please refer to the current Method Statement for the SikaProof® P-1201 System.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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