



## PROVISIONAL SYSTEM DATA SHEET

# SikaProof® P-1201 System

FULLY BONDED, POST-APPLIED FPO SHEET MEMBRANE WATERPROOFING SYSTEM FOR BASEMENT AND BELOW GROUND STRUCTURES

### PRODUCT 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 a 2 component PU adhesive SikaProof® Adhesive-11 (H or V). SikaProof® P-1201 System is cold-applied and post-applied onto the hardened reinforced concrete structure.

### WHERE TO USE

SikaProof® P-1201 System 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:

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

### SYSTEMS

#### System Structure

#### SikaProof® P-1201 System

Waterproofing Membrane

Adhesive

SikaProof® P-1200

SikaProof® Adhesive-11H (Horizontal)

SikaProof® Adhesive-11V (Vertical)

See current Method Statement of the SikaProof® P-1201 System for compatible accessories and complementary products used to create the relevant details and connections.

### CHARACTERISTICS / ADVANTAGES

- 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
- Validated high watertightness
- Easy to install with fully adhered joints (no welding required)
- Cold applied
- 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

### APPROVALS / CERTIFICATES

- Function test, Wissbau, according German standards, test report No. 2016-397
- Radon Diffusion, SikaProof® P-1201, Dr Kemski, Test Report No.2017061601e

## TECHNICAL INFORMATION

|   |   |  |
|---|---|--|
| <b>Resistance to Impact</b>                       | ≥ 400 mm<br>190 lbs (no puncture)   | (EN 12691, Method A)<br>(ASTM E154)                              |
| <b>Resistance to Root Penetration</b>             | Pass  | (CEN/TS 14416)   |
| <b>Pull-Off Strength</b>                          | ≥ 1.5 N/mm <sup>2</sup>   | (EN 1542)  |
| <b>Adhesion in Peel</b>                           | ≥ 80 N/50 mm, to hardened structural concrete<br>≥ 30 lbs/in, to hardened structural concrete | (EN 1372)<br>(ASTM D903)   |
| <b>Joint Peel Resistance</b>                      | ≥ 50 N/50 mm<br>≥ 18 lbs/in   | (EN 12316-2)<br>(ASTM D1876)                                     |
| <b>Accelerated Ageing in Alkaline Environment</b> | Pass  | (EN 1847) (28 d / +23 °C)<br>(EN 1928, Method B) (24 h / 60 kPa) |
| <b>Water Vapour Transmission</b>                  | 3.45 x 10 <sup>-9</sup> g/Pa·S·m <sup>2</sup> (0.06 perms)                                    | (ASTM E96)   |
| <b>Resistance to lateral water migration</b>      | Pass, up to 7 bar (100 psi)   | (ASTM D 5385 modified)   |
| <b>Permeability to Radon</b>                      | Radon Diffusion, SikaProof® P-1201, Dr Kemski, Test Report No.2017061601e                     |  |
| <b>Service Temperature</b>                        | -18 °C (0°F) min. / 35 °C (95°F) max.   |  |

## APPLICATION INFORMATION

|                                   |   |
|-----------------------------------|---|
| <b>Consumption</b>                | Consult Current TDS for SikaProof® Adhesive-11H or SikaProof® Adhesive-11V for typical consumption rates    |
| <b>Substrate Moisture Content</b> | ≤ 4 % by weight, as measured with a Tramex moisture meter, no rising moisture                               |
| <b>Pot Life</b>                   | Consult Current TDS for SikaProof® Adhesive-11H or SikaProof® Adhesive-11V for typical Pot Life information |

## PRODUCT INFORMATION

|                           |   |
|---------------------------|---|
| <b>CSC MasterFormat®</b>  | <b>07 13 00   SHEET WATERPROOFING</b>             |
| <b>Packaging</b>          | Please refer to the individual Product Data Sheet |
| <b>Shelf Life</b>         | Please refer to the individual Product Data Sheet |
| <b>Storage Conditions</b> | Please refer to the individual Product Data Sheet |

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## LIMITATIONS

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 applied.
- 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 hardened structural concrete.
- Additional Sika® Joint Sealing Solutions (minimum SikaSwell®) must be used for connections, around penetrations and in construction and expansion joints.
- Protect the membrane system immediately after completion of installation works to prevent any damages.
- SikaProof® P-1201 System is not resistant to permanent UV exposure and weathering. It must always be protected against UV exposure within a defined period of time depending on the climate conditions and the geographic region. For further information please refer to the current Method Statement of SikaProof® P-1201 System.
- SikaProof® P-1201 System must not be installed on structures permanently exposed to UV light and weathering.
- 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.

Recommended standard use:

Sika recommends using the SikaProof® P-1201 System for damp proofing or waterproofing of below ground constructions up to a certain demand. Refer to section 4 "Project Design" of the current Method Statement SikaProof® P-1201 System for selecting the most suitable type of SikaProof® membrane system.

Contact Sika technical service for additional information and assistance on the selection and specification of the appropriate solution for the specific project.

## ENVIRONMENT, HEALTH & 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 QUALITY

Reinforced concrete structure must be:

- Hardened and of sufficient compressive strength, minimum 25 MPa (3600 psi)
- With a minimum pull-off strength of 1.5 MPa (215 psi)
- Dry, sound, clean and free of any contaminations (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 pre-treated 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.

### APPLICATION METHOD / TOOLS

The installation method of SikaProof® P-1201 System is state of the art for adhered membrane systems, by simple and easy bonding of the membrane sheets onto a previously applied adhesive bed. The following working steps are to be complied with:

- Substrate preparation and cleaning, to fulfil requirements on substrate quality.
- Mix the 2-C SikaProof® Adhesive-11 (H or V) according to the Product Data Sheet.
- Apply the adhesive with a notched trowel or notched squeegee onto the substrate full surface (no primer required).
- Prepare and apply the SikaProof® P-1200 membrane accordingly.
- Roll in and press the membrane properly into the still fresh adhesive bed.
- Ensure a minimum adhesive layer thickness of 1 mm is maintained after pressing.
- Overlap and adhere the membrane sheets, with a minimum bonded overlap of 90 mm.
- Treat all details and connections according to the Method Statement.

For more detailed information and guidance please refer to the current Method Statement for the SikaProof® P-1201 system.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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### **Other locations**

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

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### **Provisional System Data Sheet**

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