

General building authority test certificate

**Recognized inspection
body:**

Kiwa GmbH Polymer Institute
HES12
Quellenstrasse 3
65439 Flörsheim-Wicker

Test certificate number:

P 14446 / 25 -733

Object:

SOLIDPROOF SMP 1K SF with polyester fleece G120
Liquid plastics for waterproofing buildings
in accordance with the Hessian Administrative Regulation
on Technical Building Regulations (H-VV TB) (February
2025 edition), No. C 3.28

Applicant:

EPDM Products b.v.
Molenweg 32
3849 RN Hierden
Netherlands

Date of issue:

01.03.2025

Period of validity:

23.09.2029

This general building authority test certificate comprises 7 pages
incl. Annex 1 (1 page)



A GENERAL PROVISIONS

- (1) This general building authority test certificate verifies the usability of the building product in accordance with the state building regulations.
- (2) The general building authority test certificate does not replace the permits, approvals and certificates required by law for the implementation of construction projects.
- (3) The general building authority test certificate shall be issued without prejudice to the rights of third parties, in particular private property rights.
- (4) Manufacturers and distributors of the construction product must provide the user of the construction product with copies of the general building authority test certificate and point out that the general building authority test certificate must be available at the place of use, notwithstanding any further regulations in the "Special provisions". Copies of the general building authority test certificate must be made available to the authorities involved on request.
- (5) The general building authority test certificate may only be reproduced in full. Publication of extracts requires the consent of Kiwa GmbH, Polymer Institut. Texts and drawings in advertising material must not contradict the general building authority test certificate. Translations of the general building authority test certificate must contain the note "Translation of the original German version not approved by Kiwa GmbH, Polymer Institut".
- (6) The general building authority test certificate is issued on a revocable basis. The provisions may be supplemented and amended at a later date, in particular if new technical findings make this necessary.

B SPECIAL PROVISIONS

1 OBJECT AND AREA OF APPLICATION

1.1 Object

This general building authority test certificate applies to the manufacture and use of waterproofing of buildings with liquid plastics with the product designation *SOLIDPROOF SMP 1K SF with polyester fleece G120* from EPDM Products b.v. as surface waterproofing in accordance with the Hessian Administrative Regulation on Technical Building Regulations (VV TB), February 2025 edition, No. C 3.28.

1.2 Area of application

The product *SOLIDPROOF SMP 1K SF with polyester fleece G120* may be used as structural waterproofing for surfaces inclined up to 90° for the following load cases:

1. The waterproofing of floor slabs in contact with the ground and external wall surfaces against ground moisture (capillary water, adhesive water) and non-pressing water. This corresponds to water exposure class W1-E in accordance with DIN 18533-1.
2. The waterproofing of ground-covered ceiling surfaces against non-pressing water. This corresponds to water exposure class W3-E in accordance with DIN 18533-1.
3. The waterproofing of floor and wall surfaces in indoor areas subject to very high loads and of used indoor and outdoor areas against non-pressing water.



4. The waterproofing of floor slabs in contact with the ground and external wall surfaces against the moderate effects of pressing water up to 3 m head of water. This corresponds to water exposure class W2.1-E in accordance with DIN 18533-1.
5. The waterproofing of containers against water pressing from the inside (swimming pools, water tanks, water storage tanks) in interior and exterior areas up to a filling height of 10 m. This corresponds to water exposure class W2-B according to DIN 18535-1. This corresponds to water impact class W2-B in accordance with DIN 18535-1. Filling water with drinking water properties and liquids other than water require separate verification.

2 PROVISIONS FOR THE CONSTRUCTION PRODUCT

2.1 Composition, characteristic values and properties

2.1.1 Composition

The construction product *SOLIDPROOF SMP 1K SF* belongs to the group of reactive resins based on silane-modified polymers.

The following components are part of the sealing system:

Position / Layer	System component
Waterproofing	SOLIDPROOF SMP 1K SF
Reinforcement	Polyester fleece G120

2.1.2 Characteristic values

The technical characteristics of the components can be found in Appendix 1. The characteristic values also serve as reference values for the proof of compliance in accordance with Section 3.

2.1.3 Properties

The structural waterproofing of *SOLIDPROOF SMP 1K SF with polyester fleece G120* is sufficient for the areas of application mentioned:

- Stable when applied to surfaces inclined up to 90°
- alkaline-resistant
- adhesive tensile strength ($\geq 0,5 \text{ N/mm}^2$) on mineral substrates
- Crack-bridging for cracks up to 2.0 mm in the substrate
- sufficiently resistant to perforation
- rainproof after 1 h

The fire behavior of the installed building product is classified as class E according to DIN EN 13501-1. Proof has been provided with the classification report no. KB-Hoch-230945-2 from the Hoch fire testing institute in Fladungen.



Proof of usability was provided by tests in accordance with the test principles for liquid plastics (PG-FLK) with test report no. P 13911 dated 23.08.2023 from the Kiwa GmbH, Polymer Institute.

2.2 Production, packaging, transport, storage , labeling

2.2.1 Manufacture

The construction product *SOLIDPROOF SMP 1K SF with polyester fleece G120* is manufactured in the factory.

2.2.2 Packaging, transportation, storage

Packaging, transportation and storage must be carried out in accordance with the manufacturer's instructions. The products must be protected from the effects of temperature (frost-free), water, damage and soiling.

The information on the packaging regarding requirements from other legal areas (e.g. hazardous substances or transportation law) must be observed.

2.2.3 Labeling of the product and components

The product must be labeled as follows:

- Product name
- Compliance mark (see section 4)
- Date of manufacture and / or expiry date
- Fire behavior, class E according to EN 13501-5
- Reference to the associated processing regulation

The labeling can be on the packaging or on the accompanying documents. The product components must be labeled as belonging to the product. The labeling must clearly indicate the allocation of the individual components to each other.

2.3 Dimensioning and design

- (1) The relevant specifications of DIN 18533 and DIN 18535, the safety data sheets and installation instructions as well as the manufacturer's processing guidelines and work instructions apply to the application. More detailed information can be found in the appendix.
- (2) Substrates must be dry, load-bearing and free of adhesion-reducing substances. They must be prepared accordingly.
- (3) The waterproofing must be applied in at least 2 coats. The minimum values for the total dry layer thickness specified in Table 1 must be observed. They must not be undercut at any point of the waterproofing.
- (4) 2/3 of the waterproofing material must be applied using a paint roller or brush. The polyester fleece G120 is then applied to the prepared material and the remaining 1/3 of the material is applied using a paint roller or brush.
- (5) Only the polyester fleece G120 reinforcement supplied by the manufacturer together with the liquid plastic for waterproofing the building and designated for use in the waterproofing system may be used.
- (6) After waterproofing, cracks in the substrate must not widen by more than 2.0 mm.



Table 1 Minimum values for the design
SOLIDPROOF SMP 1K SF with polyester fleece G120

Load case	Dry film thickness ¹⁾ [mm]
Soil moisture and non-accumulating seepage water	≥ 2,2
Non-pressing water with high loads	≥ 2,2
Pressing water and accumulating seepage water	≥ 2,2
Water pressing from the inside	≥ 2,2

¹⁾ with reinforcement made of polyester fleece G120

3 PROOF OF COMPLIANCE

3.1 General information

In accordance with the Hessian Administrative Regulation on Technical Building Regulations (H-VV TB), No. C 3.28 (February 2025 edition), proof of conformity of the construction product with the requirements of this general building authority test certificate is provided by a declaration of conformity by the manufacturer on the basis of a factory production control (FPC) and an inspection of the construction product before confirmation of conformity (initial test) by a body recognized for this purpose by the building authorities (ÜHP). Initial test of the construction product by a recognized testing body.

3.2 Initial test

To carry out the initial test, the manufacturer of the construction product must engage a testing body recognized for this purpose. As part of the initial test, the characteristic values must be tested in accordance with section 2.1.2. The test values may not deviate from the reference values by more than the tolerances specified in the annex.

If the production conditions change, an initial test must be carried out again.

3.3 Factory production control (FPC)

A factory production control system must be set up and implemented at the manufacturing plant in accordance with DIN 18200.

As part of the FPC, the inspections must be carried out during ongoing production within the periods and frequencies specified in the inspection principles accordance with Table 3 of the current inspection principles.

When determining the test rhythm, the uniformity of production must be ensured.

If the manufacturer sells supplied reinforcement and auxiliary materials together with the waterproofing material, he must ensure that the materials have the intended properties. This can be done either by the manufacturer's incoming goods inspection or by submitting a "Works Certificate 2.2" in accordance with DIN EN 10204 from the supplier of the reinforcement. The characteristic values and tolerances are specified under 2.1.3.

The results of the factory production control must be recorded, evaluated and kept for at least five years. Upon request, they must be submitted to the inspection body in the event of changes or extensions to the abP and to the supreme building supervisory authority.



4 MARK OF CONFORMITY

The construction product, its packaging or the instruction leaflet must be labelled by the manufacturer in accordance with the respective national regulations on the conformity mark. Labelling may only be carried out if the requirements in section 3 are met.

The following information must also be included on the construction product, its packaging or the instruction leaflet:

- Manufacturer and manufacturing plant
- Abbreviation of the technical rule applicable to the construction product
- Number of the general building authority test certificate and the designation of the test center

Further information is provided in the labeling according to 2.2.3.

5 LEGAL BASIS

This general building authority test certificate is issued in accordance with § 22 of the Hessian Building Regulations (HBO), in the version dated 28.05.2018, last amended July 2023, in conjunction with the Hessian Administrative Regulation Technical Building Regulations (H-VV TB), February 2025 edition, No. C 3.28

6 NOTICE OF LEGAL REMEDIES

An appeal against this decision is admissible. In the event of an objection, this must be lodged in writing or for the record with Kiwa GmbH Polymer Institut, Quellenstraße 3, 65439 Flörsheim-Wicker within one month of receipt of this decision. The date of receipt of the notice of objection by Kiwa GmbH Polymer Institut shall be decisive for the timeliness of the objection.

Flörsheim-Wicker, 01.03.2025



Dipl.-Ing. Nicole Machill

Test center manager



Appendix Technical characteristics and scope of factory production control (FPC) and tolerances

Waterproofing SOLIDPROOF SMP 1K SF			Tolerance
Density	g/cm ³	1,351	± 3 %
Viscosity	mPas	6900	± 20 %
Ash content (hardened substance)	M.-%	39,7	± 3 %
Non-volatile components	M.-%	98,9	± 5 %
IR spectrum (1 x per year)	-	present	identical in the essential characteristics
Train characteristics (2 x per year)	% elongation	35,1 %	± 3 %
	N/mm ² Tension	7.92 N/mm ²	
Reinforcing layer polyester fleece G120			
Grammage	approx. 120 g/m ²		± 10 %
Maximum tensile force	lengthwise / crosswise: ≥ 200 N/50 mm		± 20 %
Maximum tensile elongation	lengthwise / crosswise: ≥ 35 %		± 20 %

