

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-19/0834
of 24 January 2020

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

weber.tec Superflex D 24

Product family
to which the construction product belongs

Flexible polymer modified mineral thick coating

Manufacturer

Saint-Gobain Weber GmbH
Schanzenstraße 84
40549 Düsseldorf
DEUTSCHLAND

Manufacturing plant

Saint-Gobain weber Werk Datteln / Natrop
Alfons-Deitermann-Straße 1
45711 Datteln

This European Technical Assessment
contains

7 pages including 2 annexes which form an integral part
of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

EAD 030295-00-0605

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Specific part

1 Technical description of the product

"weber.tec Superflex D 24" is a flexible polymer modified mineral thick coating for waterproofing of buildings. The coating is highly flexible, crack-bridging, frost- and UV-resistant.

The product is either an individual product or part of a system consists of the following components:

- 2-component flexible polymer modified mineral thick coating "weber.tec Superflex D 24"
- fiberglass mesh "weber.tec 981" - for the intended uses (D), (E) and (F)

For an adequate adhesion of the flexible polymer modified mineral thick coating – depending on the type of substrate – a primer may be needed. In general the primer belonging to the substrate is given in the manufacturer's technical documents¹. In single cases the manufacturer is responsible to give guidance which pre-treatment/primer is required.

Generally, the product is applied in two layers. The total minimum dry film thickness depends on the water load that the waterproofing is exposed to as well as on the installation situation within the construction, see table in clause 2.

The components and the system setup of the product are given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The product is intended to be used for waterproofing of buildings in new and existing buildings or for partial roof repair as following:

Intended uses	Description / water load / installation situation	Product-specific total minimum layer thickness
(A)	Horizontal waterproofing in and under walls against capillary water	2.0 mm
(B)	Waterproofing of plinth area against splash water	2.0 mm
(C)	Waterproofing of building elements exposed to soil against ground damp and non-standing seepage water - minimum water load	3.0 mm
(D)	Waterproofing against external water pressure up to 3 m below ground level - moderate water pressure	4.0 mm
(E)	Waterproofing against external water pressure up to 8 m below ground level - Heavy water pressure	4.0 mm
(F)	Waterproofing of joints in prefabricated concrete units (against water pressure up to 3 m)	4.0 mm

¹ The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for repair of the waterproofing made from that and it is deposited with DIBt.

The performance given in Section 3 is only valid if the flexible polymer modified mineral thick coating is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the flexible polymer modified mineral thick coating of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	see Annex A

3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Crack-bridging properties	see Annex A
Resistance to rain	see Annex A
Water resistance	see Annex A
Durability in water storage by testing the bond strength	see Annex A
Water vapour transmission	see Annex A
Determination of carbon di-oxide permeability	see Annex A
Determination of watertightness	see Annex A
Resistance to compression	see Annex A
Watertightness in end use conditions	see Annex A
Freeze-Thaw resistance	see Annex A
Dry film thickness	see Annex A
Flexibility at low temperatures	see Annex A
Determination of water tightness in end use conditions	see Annex A

3.3 Sustainable use of natural resources (BWR 7)

Essential characteristic	Performance
Environmental impact categories	see Annex A

English translation prepared by DIBt

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 030295-00-0605, the applicable European legal act is:
1999/90/EC (EU) amended by 2001/596/EC (EU).

The system to be applied is: 3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 24 January 2020 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Hannoun

System set-up:

1. Mineral substrate
2. Primer, e.g. "weber.prim 801" (if required, depending on substrate)
3. 1st layer of two-component flexible polymer modified mineral thick coating "weber.tec Superflex D 24"
4. Fiberglass mesh "weber.tec 981" - for the intended uses (D), (E) and (F)
5. 2nd layer of two-component flexible polymer modified mineral thick coating "weber.tec Superflex D 24"

Performance of the flexible polymer modified mineral thick coating "weber.tec Superflex D 24"

Intended use	(A) ⁽¹⁾	(B) ⁽¹⁾	(C) ⁽¹⁾	(D) ⁽¹⁾	(E) ⁽¹⁾	(F) ⁽¹⁾
Minimum dry layer thickness	2.0 mm		3.0 mm	4.0 mm		
Minimum quantity consumed	2.2 kg/m ²		3.3 kg/m ²	4.4 kg/m ²		
Fiberglass mesh with an approx. weight per m ² of	not applicable			160 g/m ²		
Reaction to fire	Class E					
Crack-bridging properties	no performance assessed		CB2 ⁽²⁾	CB2 ⁽²⁾		
Resistance to rain	- no colouring of run-off water or deteriorations in quality (drying time before testing: 4 h)					
Water resistance	- no colouring of water or deteriorations in quality					
Durability in water storage by testing the bond strength	- no decrease in bond strength which could indicate a time-dependent failure - no detachment or formation of blisters - bond strength after 56 days of water storage: 0.60 N/mm ²					
Water vapour transmission	$\mu = 1700$					
Determination of carbon dioxide permeability	no performance assessed					
Determination of watertightness (free film)	watertight ⁽³⁾ (5 mm slit width, 2 bar ⁽⁴⁾ , 24 h test time)					
Resistance to compression	C2A and C2B ⁽²⁾					
Watertightness in end use conditions (relevant to the intended use: waterproofing of joints in prefabricated concrete units)	not applicable				- watertight, no wet spots, detachment or formation of blisters (0.75 bar ⁽⁴⁾ , 1 mm joint) - bond strength at the end of test: 0.85 N/mm ² (cohesion fracture)	
Freeze-Thaw resistance	- bond strength after dry conditioning (28 days at standard atmosphere): 1.0 N/mm ² (cohesion fracture) - bond strength after exposure to freeze-thaw cycles : 0.7 N/mm ² (cohesion fracture)					
Dry film thickness (decrease in film thickness after drying)	- wet film thickness: 4.0 mm - arithmetic average of Dry film thickness: 3.6 mm (decrease in film thickness $\leq 10\%$) - standard deviation: 0.188 mm - consumption: 1.1 kg/m ² per 1 mm dry film thickness					
Flexibility at low temperatures (0 \pm 0.5 °C)	no cracks					
Determination of water tightness in end use conditions (tank-test)	Watertight (0.02 bar ⁽⁴⁾)		watertight (0.75 bar ⁽⁴⁾)		watertight (2 bar ⁽⁴⁾)	watertight (0.75 bar ⁽⁴⁾)
Environmental impact categories	no performance assessed					

⁽¹⁾ See table of intended uses under clause 2 of this ETA.

⁽²⁾ Class(es) according to EN 15814.

⁽³⁾ 4 mm thick samples with fiberglass mesh "weber.tec 981".

⁽⁴⁾ Minimum test water pressure according to testing method (EAD). For the relevant water load depending on intended use - taking into account the safety factor 2.5 - see Clause 2 of this ETA.

weber.tec Superflex D 24
Saint-Gobain Weber GmbH

System set-up and performance of the product

Annex A

Installation

The performance of the flexible polymer modified mineral thick coating can be assumed only, if the installation is carried out according to the installation instructions stated in the technical documents of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel
- installation of only those components which are specified components of the system
- installation with the required tools and adjuvant
- precautions during installation
- inspecting the substrate surface for cleanliness and correct treatment. If needed applying a scratch coat, e.g. using "weber.tec Superflex D 24"
- inspecting during installation and of the finished watertight membrane and documentation of the results
- temperature of air and surface during installation: +1°C to +30°C
- the flexible polymer modified mineral thick coating is applied in at least two layers
- minimum material consumption in regard to the minimum dry layer thickness according to annex A of this ETA (consumption of fill and scratch coat is not considered in Annex A)
- corners and edges between floors and walls are formed round with a diameter of about 5 cm, e.g. using "weber.tec 933"

weber.tec Superflex D 24 Saint-Gobain Weber GmbH	Annex B
Intended use Specifications	