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MEMBER OF EOTA



## European Technical Assessment ETA-15/0028 of 2022/03/28

### I General Part

**Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S**

**Trade name of the construction product:**

Superflex D2 Watertight covering kit  
*WeberFast Vedeneristysjärjestelmä*

**Product family to which the above construction product belongs:**

Liquid applied watertight covering kit for wet room floors and walls

**Manufacturer:**

Saint-Gobain Byggevarer as  
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N-0614 Oslo  
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Telefax +4722645454  
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**Manufacturing plant:**

Saint-Gobain Finland Oy

**This European Technical Assessment contains:**

9 pages including 1 annex which form an integral part of the document

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

EAD 030352-00-0503 for Liquid applied watertight covering kits for wet room floors and/or walls

**This version replaces:**

The ETA with the same number issued on 2021-08-17

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## II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

### 1 Technical description of product and intended use

#### Technical description of the product

WeberFast is a liquid applied two component membrane kit and associated components, such as primers, reinforcements and adhesives, which serves as a watertight covering for wet room floors and walls beneath a wearing surface.

The kit consists of the following components:

#### Primers

Weber.tec 1 or Weber.floor 4716 Primer, which is used for non-moisture sensitive substrates and weber MS+ Moisture Sealer for moisture sensitive substrates. The weber MS+ Moisture Sealer is intended to have a significant additional function in limiting the water vapour permeability of the kit.

#### Membrane

The weber.tec Superflex D2 membrane is a two-component membrane system consisting of Weber cement-based powder and Weber liquid - 1:1 parts by weight.

#### Reinforcement

The reinforcements are Weber Stripe, weber.tec 828 DB, Weber Inner Corner and Weber Outer Corner which are used in connection between the floor and walls and in corners in order to bridge joints. Reinforcements are glued to the substrate with Superflex D2 membrane.

Sealing around pipe penetrations are made with Weber Sealing Collars, which are prefabricated collars glued to the substrate with Superflex D2 membrane, and sealing of floor gullies is made with Weber Drain Collar which is a butyl based self-adhering collar.

The reinforcement is normally not intended to cover the entire floor and wall covering, but is used over joints and in corners and around pipe penetrations and floor gullies.

#### Adhesives

Adhesives covered by this ETA is: weber rex fix, Weber.xerm 858 blue comfort, weber Multiglue and weber.tec. Superflex D2.

#### Kit

The kit is constructed as follows:

- For non-moisture sensitive substrates (massive stone structures); a layer of minimum 0,1 l/m<sup>2</sup> (100 g/m<sup>2</sup>) weber.floor 4716 Primer (diluted with water 1:3) or a layer of minimum 0,1 l/m<sup>2</sup> (100 g/m<sup>2</sup>) weber.tec 1 Primer (undiluted) is used.
- For moisture sensitive substrates 158 g/m<sup>2</sup>) weber MS+ Moisture Sealer is used. On absorbing substrates a first layer is applied with weber MS+ Moisture Sealer diluted 1:3 with water. Second layer is applied undiluted.
- reinforcement of in- and out-going corners in walls, over joints or cracks in the substrate, around pipe penetrations, floor gullies and along the connection between floor and wall as described under the heading "Reinforcement".
- at least 2,5 kg/m<sup>2</sup> (when using mixing ration 1:1) on the wall and floor of Superflex D2 Waterproofing Membrane is distributed evenly over the surface in two applications. Alternatively, at least 1,2 kg/m<sup>2</sup> (when using mixing ratio 1 part dispersion : 0,75 part powder) on the wall and floor of Superflex D2 Waterproofing Membrane is distributed evenly over the surface in two applications can be used
- a layer of ceramic tiles adhered to the kit with cement based tile adhesive (See adhesives covered by the ETA).

Note that the above mentioned amount of Superflex D2 corresponds to a dry film thickness of min. 2,0 mm or 0,8mm respectively on wall and floor. (see section 3.8).

### 2 Specification of the intended use in accordance with the applicable EAD

The intended use of the covering kit is:

1. watertight covering for use beneath a wearing surface, normally in the form of tiles, on substrates of gypsum boards, cement fibre boards, XPS boards and concrete, i.e. non moisture sensitive substrates, which are rigid and susceptible to cracking, in indoor applications,

The kit can be used with the following types of floor gullies:

Circular and rectangular gullies made from stainless steel or plastic type PP with flange for adhesion of the watertight covering. The water tightness at the connection into the gully are ensured by Drain Collar and with spring clamping ring, clamping ring as screwed connection or with flange for adhesion of the waterproofing material.

2. Indoor applications, where the liquid applied kit is not exposed to temperatures (i.e. temperature of structure) below 10 °C and above 40 °C, in the following uses:

- Floor and wall surfaces with only occasional direct exposure to water, e.g. at a good distance from shower or bathtub.
- Floors and walls in shower areas or around bathtubs used for a few showers daily, e.g. in ordinary dwellings, multi-family houses and hotels
- Floor and wall surfaces with exposure to water more frequent or of longer duration than normally anticipated in dwellings, e.g. public wet rooms, schools and sport facilities.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the kit of 25 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, 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

Characteristic	Assessment of characteristic
<b>3.2 Safety in case of fire (BWR2)</b>	
Reaction to fire	No performance assessed
<b>3.3 Hygiene, health and the environment (BWR3)</b>	
Dangerous substances	The product does not contain/release dangerous substances
Vapour permeability	<p>The vapour permeability of the Superflex D2 membrane without and with primer applied in an amount of 2,5 kg/m<sup>2</sup> to a dry film thickness of 2,0 mm when tested at 23°C and RH 93 → 50 %.</p> <p><b>S<sub>a</sub> (H<sub>2</sub>O) [m] 4,5 and μ (H<sub>2</sub>O) [-] 2100</b> for kits with 2 × 1.25kg/m<sup>2</sup> Superflex D2 membrane (equivalent thickness = 2,0 mm).</p> <p><b>Water vapour permeance W (kg/(m<sup>2</sup>·s·Pa)) 3,19 x 10<sup>-11</sup> and Water vapour diffusion factor μ = 61449</b> for kits with weber MS+ Moisture Sealer 1 × 158 g/m<sup>2</sup></p> <p>The vapour permeability of the Superflex D2 membrane without and with primer applied in an amount of 1,2 kg/m<sup>2</sup> to a dry film thickness of 0,8 mm when tested at 23°C and RH 93 → 50 %.</p> <p><b>S<sub>a</sub> (H<sub>2</sub>O) [m] 3,5 and μ (H<sub>2</sub>O) [-] 6670</b> for kits with 2 × 0,6 kg/m<sup>2</sup> Superflex D2 membrane (equivalent thickness = 0,8 mm).</p> <p><b>Water vapour permeance W (kg/(m<sup>2</sup>·s·Pa)) 21 x 10<sup>-12</sup> and Water vapour diffusion factor μ = 21415</b> for kits with weber MS+ Moisture Sealer 1 × 158 g/m<sup>2</sup></p>
Moisture resistance	
Water tightness	<b>Watertight</b> according to EN 14891
Crack bridging ability	<p>2 × 1.25 kg/m<sup>2</sup> Superflex D2 membrane (equivalent thickness = 2,0 mm). <b>Assessment category 1</b>, crack width 0,4 mm</p> <p>1 × 1.2 kg/m<sup>2</sup> Superflex D2 membrane (equivalent thickness = 0,8 mm). <b>Assessment category 1</b>, crack width 0,4 mm</p>

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<b>Characteristic</b>	<b>Assessment of characteristic</b>
Bond strength	<p>Weber MS+ Moisture sealer, Weber.tec 1 or Weber floor 4716 primer and Superflex D2 membrane and weber rex fix, weber.xerm 858 blue comfort and Superflex D2 as a tile adhesive on concrete substrate all comply with <b>Assessment category 2:</b> Bond strength <math>\geq 0,5</math> MPa</p> <p>Superflex D2 membrane and weber Multiglue tile adhesive on concrete substrate all comply with <b>Assessment category 1:</b> <math>&gt; 0,3</math> MPa</p> <p>Weber MS+ Moisture Sealer and Superflex D2 membrane and weber Multiglue tile adhesive on cement fibre boards, XPS board and concrete substrate all comply with <b>Assessment category 1:</b> <math>&gt; 0,3</math> Mpa</p> <p>Weber MS+ Moisture Sealer and Superflex D2 membrane and weber rex fix tile adhesive on gypsum boards substrate all comply with <b>Assessment category 1:</b> <math>&gt; 0,3</math> MPa</p>
Scratching resistance	<p>No performance determined</p>
Joint bridging ability	<p><b>Assessment category 2</b></p>
Water tightness around penetrations	<p>Superflex D2 membrane and Weber Sealing Collar and Weber Drain Collar **) or Weber reinforcements Weber Fibrestripe, weber.tec 828 DB, Weber Inner Corner, Weber Outer Corner, as described in section II.1 of this ETA comply with <b>Assesment category 2:</b> Watertight</p> <p>Specifically the following combinations of the kit and floor gullies have been assessed :</p> <p>Superflex D2 membrane (without primer) with Weber Drain Collar (Yellow 37cm x 37cm):</p> <ul style="list-style-type: none"><li>- Blücher floor drain, (stainless steel).</li></ul> <p>Superflex D2 membrane (without primer) with Weber Drain Collar (Grey 37cm x 37cm):</p> <ul style="list-style-type: none"><li>- Joti floor drain, (PP).</li><li>- Serres floor drain (PP).</li></ul> <p>Superflex D2 membrane (without primer) with Weber Sealing Collar (Yellow various sizes):</p> <ul style="list-style-type: none"><li>- 50mm pipe (PP)</li><li>- 11mm pipe (PP)</li></ul>

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**Characteristic**

**Assessment of characteristic**

**3.8 Related aspects of durability**

Resistance to temperature  
Resistance to water  
Resistance to alkalinity

On concrete  
**Assessment category 2:** Bond strength  $\geq 0,5$  MPa  
**Assessment category 2:** Bond strength  $\geq 0,5$  MPa  
**Assessment category 2:** Bond strength  $\geq 0,5$  MPa

Resistance to temperature  
Resistance to water  
Resistance to alkalinity

On cement fibre boards and XPS board  
**Assessment category 2:** Bond strength  $\geq 0,5$  MPa  
**Assessment category 1:**  $> 0,3$  Mpa  
**Assessment category 1:**  $> 0,3$  MPa

Resistance to water

On gypsum boards  
**Assessment category 1:**  $> 0,3$  Mpa

Repairability

Repairable

Thickness

The required weight (wet) of the Superflex D2 membrane is  $2,5 \text{ kg/m}^2$  which equals 2 mm dry thickness when using mixing ratio 1:1 and  $1,25 \text{ kg/m}^2$  and equals = 0,8 mm when using mixing ratio 1:0,75.

\*) In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

\*\*) In accordance with the provisions of EAD 030352-00-0503 – Annex A, the kit has been tested with three types of floor gullies; two PP gullies, both with clamping rings - and one stainless steel gully

**Aspects related to the performance of the product**

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The performance of the watertight membrane kit results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the watertight system for creating a watertight covering under wearing surface for floors and walls in indoor wet areas shall be considered

The performance of the watertight membrane can be assumed only, if the following aspects are considered:

- only those components which are specified components of the kit can be used,

- the appropriate tools shall be used and adjuvant, precautions shall be taken,
- inspecting the substrate surface for cleanliness and correct treatment,
- inspection in the process of establishing the kit and of the finished watertight membrane and documentation of the results.

The information as to the handling of waste products shall be observed.

It is the manufacturer's responsibility to make sure that all those who utilize the kit will be appropriately informed about the specific conditions according to this ETA and the not confidential parts of the MTD deposited to this ETA

#### **4 Attestation and verification of constancy of performance (AVCP)**

##### **4.1 AVCP system**

According to the decision 2003/655/EC of the European Commission as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

#### **5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD**

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2022-03-28 by



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Managing Director, ETA-Danmark



## weberFast / Superflex D2



Weber Superflex D2 watertight covering kit	Annex 1
Principle build-up of the kit	of European Technical Assessment ETA-15/0028