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to Article 29 of the Regulation (EU)
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MEMBER OF EOTA



European Technical Assessment ETA-23/0910 of 2024/05/27

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:

Hey'di K20 Membran

Product family to which the above construction product belongs:

Liquid applied watertight covering kit for wet room floors and walls

Manufacturer:

Hey'di Oy
c/o Hey'di AS
Trestjerndalsvegen 68,
Postboks 13,
NO-2017 Frogner
Tel. + 47 63 86 88 00
Internet: www.heydi.no

Manufacturing plant:

Hey'di AS
Postboks 13,
NO-2017 Frogner

This European Technical Assessment contains:

8 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 2024-01-08

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

Hey'di K20 Membran is a liquid applied membrane which serves as a watertight covering for wet room floors and walls beneath a wearing surface.

The kit consists of the following components:

Primer

Hey'di Golvprimer, which is a dispersion-based primer for various substrates. The primer is not intended to have a significant additional function in limiting the water vapour permeability of the kit.

Membrane

Hey'di K20 Membran, which is a dispersion-based liquid applied membrane used to adhere the reinforcements and sealings to the substrate, protect the layers of the vapour barrier and contribute to additional watertightness of the kit.

Reinforcement

The reinforcement is Hey'di Fiberrensa made from non-woven polypropylene, Hey'di Tätband with a front- and backside of non-woven polypropylene and a center of polyethylene, Hey'di Tätband Flex with a front- and backside of non-woven polypropylene and a center of thermoplastic elastomer or Hey'di Tätband Självhäftande, with a frontside of non-woven polypropylene and a backside of self-adhesive butyl, used to bridge cracks and joints, and, Hey'di IH 90 PE/Hey'di YH 90 PE, in and outgoing corners with a front- and backside of non-woven polypropylene and a center of polyethylene or Hey'di IH 90 TPE/Hey'di YH 90 PE in and outgoing corners with a front- and backside of non-woven polypropylene and a center of thermoplastic elastomer.

Around penetrations Hey'di RM or Hey'di RM Dubbel with a front- and backside of non-woven polypropylene and an elastic zone of polyurethan in the center. For gullies the Hey'di BRM with a frontside of non-woven polypropylene and a backside of self-adhesive butyl are used.

The reinforcement is 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.

Tile adhesives

Adhesives covered by this ETA is: Hey'di Semfix Light and Hey'di Semfix.

Kit build-up

The kit is constructed as follows:

- at least 400 g/m² Hey'di D20 Ångspärr is distributed evenly over the surface in at least two applications.
- Hey'di associated components are used in connection between the floor and the wall, in inside and outside corners, around pipe and floor drain penetrations, over joints or cracks and transitions in the substrate, all components to be embedded in Hey'di K20 Membran
- at least 2000 g/m² Hey'di K20 Membran is distributed evenly over the surface in at least two applications.
- a layer of ceramic tiles adhered to the kit with cement-based tile adhesive Hey'di Semfix Light or Hey'di Semfix

Note that the above mentioned amount of Hey'di K20 Membran corresponds to a dry film thickness of 0,8 mm.

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

1. Watertight covering for use beneath a wearing surface, normally in the form of tiles, on substrates of wood based panels, gypsum boards, fibre cement boards, cement bonded boards, watertight boards made from a polystyrene core with a cement based glass fibre reinforced covering and concrete, i.e., moisture sensitive substrates, which are flexible and with jointing and susceptible to cracking

The kit can be used with the following types of floor gullies: Circular and rectangular gullies made from stainless steel or plastic type PP or PE, with flange for adhesion of the membrane or with clamping ring or with collar

2. Indoor applications, where the liquid applied, kit is not exposed to temperatures (i.e., temperature of structure) below 5 °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 25 years, provided that they are subject to appropriate installation, use and maintenance.

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 Characteristics of product and assessment

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR 2)	
Reaction to fire	No performance assessed
3.3 Hygiene, health and the environment (BWR 3)	
Content, emission and/or release of dangerous substances	No performance assessed
Vapour permeability	The vapour permeability of the Hey'di K20 Membrane with Hey'di D20 Primer when tested at 23°C and RH 93 → 50 %. The test has been performed with the membrane facing a climate of 93 % RH: $s_d = 18,0 \text{ m}$
Water tightness	Watertight
Crack bridging ability	Assessment category 1: Crack width 0,40 mm
Bond strength	Hey'di K20 Membrane and Hey'di D20 Primer with the following tile adhesives: Hey'di Semfix, Hey'di Semfix Light on a concrete substrate all comply with Assessment category 2: Bond strength $\geq 0,5 \text{ MPa}$
Scratching resistance	Not relevant
Joint bridging ability	The system kan join bridges
Water tightness around penetrations	Watertight
Resistance to temperature	Hey'di K20 Membrane and Hey'di D20 Primer with the following tile adhesives: Hey'di Semfix Light on a concrete substrate all comply with Assessment category 2: Bond strength $\geq 0,5 \text{ MPa}$ Hey'di K20 Membrane and Hey'di D20 Primer with the following tile adhesives: Hey'di Semfix, on a concrete substrate all comply with Assessment category 1: Bond strength $\geq 0,3 < 0,5 \text{ MPa}$
Resistance to water	Hey'di K20 Membrane and Hey'di D20 Primer with the following tile adhesives: Hey'di Semfix, Hey'di Semfix Light on a concrete substrate all comply with Assessment category 2: Bond strength $\geq 0,5 \text{ Mpa}$
Resistance to alkalinity	Hey'di K20 Membrane and Hey'di D20 Primer with the following tile adhesives: Hey'di Semfix, Hey'di Semfix Light on a concrete substrate all comply with Assessment category 2: Bond strength $\geq 0,5 \text{ Mpa}$
Resistance to mechanical wear	Not relevant

Characteristic	Assessment of characteristic
3.4 Safety in use (BWR 4)	
Slipperiness	Not relevant
Reparability	No performance assessed
Thickness	The required weight (wet) of the Hey'di K20 Membran is 2,50 kg/m² pr. mm dry thickness of the layer. The minimum thickness of the membrane shall be 0,5 mm.
Durability of paint kits	Not relevant

3.9 Methods of verification

The characteristic values of the watertight covering kit are based on the EAD 030352-00-0503.

The European Technical Assessment is issued for the product based on 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 if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

Hey'di K20 Membran is manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

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.

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

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 provided for in the applicable EAD

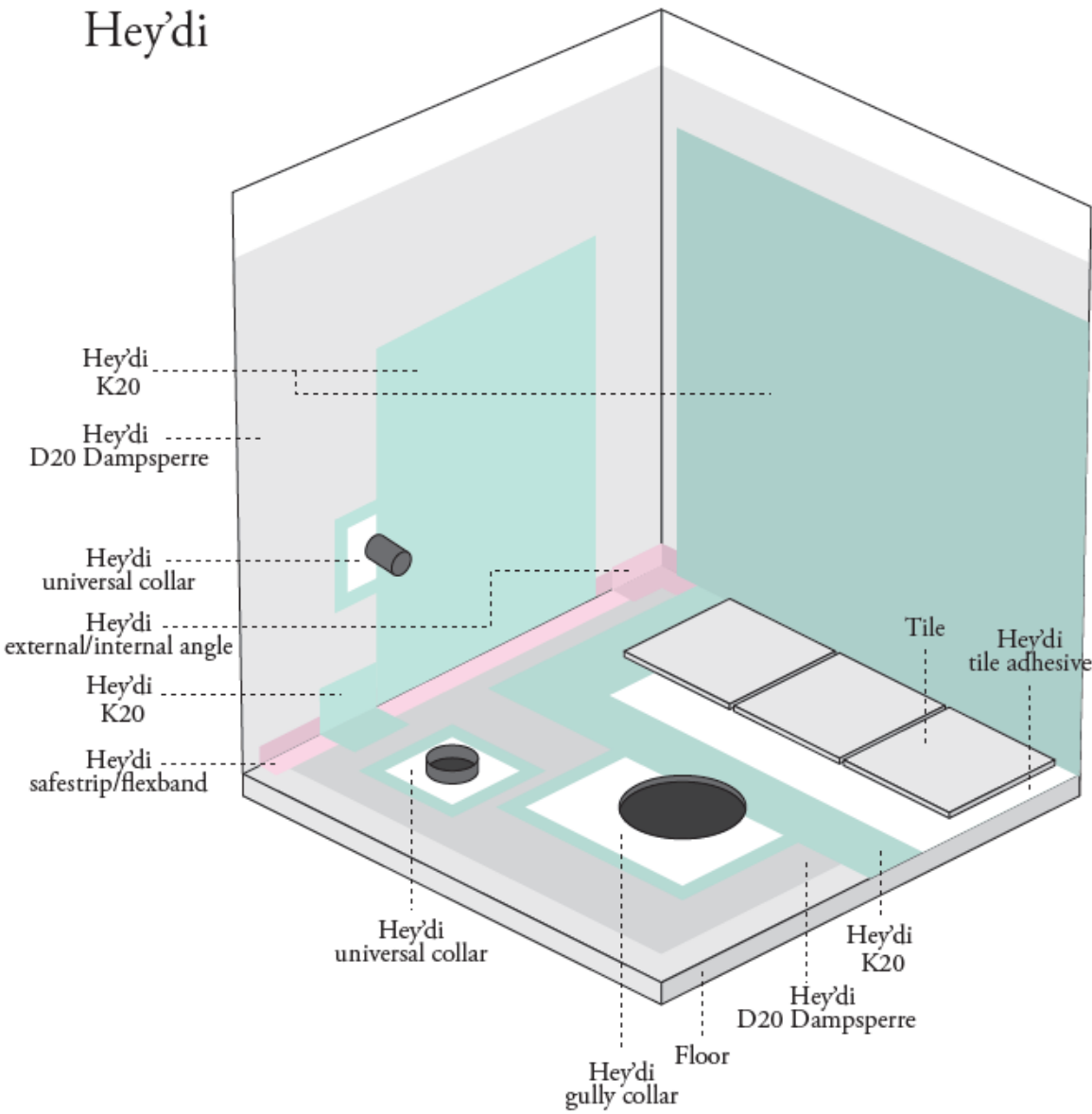
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2024-05-27 by



Thomas Bruun
Managing Director, ETA-Danmark

Annex A
Typical installation



Hey'di K20 Membran watertight covering kit

Principle build-up of the kit

Annex 1