

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-20/1083
of 16 July 2021

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

Robust Våtromssystem

Product family
to which the construction product belongs

liquid applied watertight covering kits for wet room floors
and/or walls

Manufacturer

Steinhardt AS
Pir II nr 10
7010 Trondheim
Norway

Manufacturing plant

Produktionsanlage 7010

This European Technical Assessment
contains

10 pages including 5 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 030352-00-0503

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Specific part

1 Technical description of the product

The watertight covering "Robust™ Våtromssystem" is a kit. It consists of the following components:

- Primer "Robust™ Primer" on the basis of styrol-butadien or "Robust™ Primer - Våtrom" on the basis of a polymer dispersion
- one-component liquid waterproofing membrane "Robust™ Våtromsmembran" on the basis of styrol-butadien
- sealing tape Type "Robust™ Membranbånd" or "Robust™ Membranduk Bånd"
- sealing inside corner "Robust™ Hjørnemansjett Innvendig", or "Membranduk Hjørne Innvendig"
- sealing outside corner "Robust™ Hjørnemansjett Utvendig" or "Robust™ Membranduk Hjørne Utvendig"
- sealing sleeves for walls "Robust™ Rørmansjett Ø 6 mm", "Robust™ Rørmansjett Ø 23 mm" and "Robust™ Rørmansjett Ø 70 mm"
- sealing sleeves for floor gullies "Robust™ Slukmansjett" or Butyl Sleeve "Robust™ Selvklebende Mansjett"
- adhesive according to EN 12004¹

Robust Flislim Hvit	Robust Flislim Lett	Robust Flislim Rapid
Robust Flislim	Robust Flislim Flvt	Robust Flislim Ekspress
Robust Flislim Naturstein	Robust Flislim Naturstein Rask	Robust Flislim Lett Fiber

The kit is intended to be used under a wearing surface, e.g. tiles. The wearing surface and the jointing material are not part of the kit, but are considered during the assessment of the intended use of the product.

Annex A1 shows the system build-up and annex A2 to A4 shows the components for sealing details.

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

The intended use of the watertight covering under a wearing surface is to create a floor and wall watertight covering for indoor wet areas at possible operating temperature of 5 °C till 40 °C in following uses:

- floor and/or wall surfaces with only occasional direct exposure to water, e. g. at a good distance from shower or bathtub
- floor and/or wall in shower areas or around bathtubs used for a few showers daily, e. g. in ordinary dwellings, multifamily houses and hotels
- floor and/or 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

¹ EN 12004:2014-02

Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

The watertight membrane is intended to be used on flexible substrate e. g. plywood, chipboard, gypsum, anhydrite or similar material vulnerable to water and on rigid substrates e. g. masonry or concrete.

The product should be used in connection with the following types of gullies:

Stainless steel or plastics – type PP or PE – with flange for attaching of collar/membrane or with clamping ring and collar.

The gullies are not part of the kit. It is up to the responsibility of the user to use suitable products of the given types.

The performances given in Section 3 are only valid if the watertight covering kit 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 the assumption of working life of the watertight covering kit of 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 A1

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content and/or Release of dangerous substances:	
Component: Tile adhesive (CE-marked)	According to EN 12004
Other components: Carcinogenic substances, classified as EU-Kat. Carc. 1A/1B (H350, H350i) and mutagenic substances, classified as EU-Kat. Muta. 1A/1B (H340), according to the regulation (EG) Nr. 1272/2008.	no performance assessed
Vapour permeability	See Annex A1
Watertightness	See Annex A1
Crack bridging ability	See Annex A1, category
Bond strength	See Annex A1, category
Scratching resistance	See Annex A1
Joint bridging ability	See Annex A1, category
Watertightness around penetration	See Annex A1, category
Resistance to temperature	See Annex A1, category
Resistance to water	See Annex A1, category
Resistance to alkalinity	See Annex A1, category
Resistance to mechanical wear	See Annex A1

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	See Annex A1
reparability	See Annex A1
Thickness	See Annex A1

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

In accordance with EAD No. 030352 00 0503, the applicable European legal act is: 2003/665/EC.

The system to be applied is: 2+

In addition, with regard to e.g. reaction to fire for products covered by this EAD the applicable the system to be applied is: 3

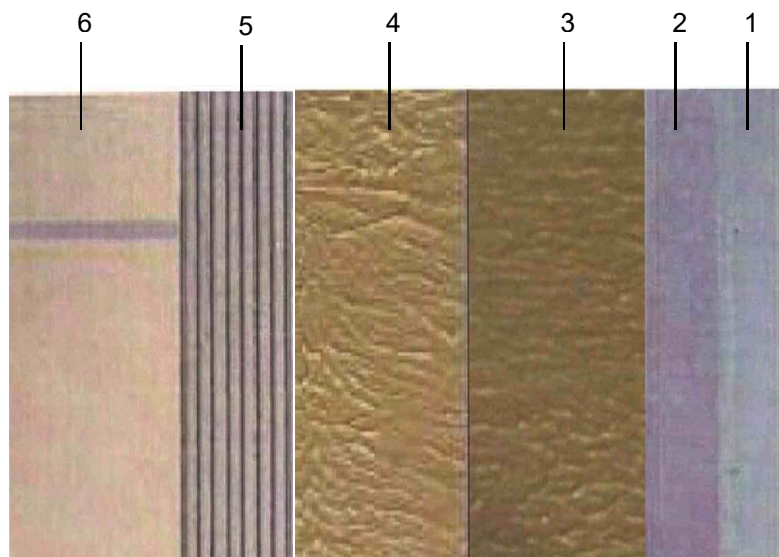
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 16 July 2021 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Gnamou



- 1 Substrate
- 2 "Robust™ Primer" or
"Robust™ Primer - Våtrom"
- 3 1st layer "Robust™ Våtromsmembran"
- 4 2nd layer "Robust™ Våtromsmembran"
- 5 Adhesive "Robust Flislim ..."
- 6 Tiles (not part of the kit)

Description of the product	
Minimum layer thickness of the waterproofing sheet	0.5 mm
Working life	25 years
Reaction to fire acc. to EN 13501-1	class E
Slipperiness	no performance assessed
Reparability	reparable
Performance of the product:	Description / Class / Level
Use category related to BWR 3	IA2
Statement on dangerous substance	see section 3.2
Water vapour diffusion resistance factor Robust™ Primer with Robust™ Våtromsmembran (1000 g/m ²)	23 °C – 50/93 % r.h. $s_d = 2,3 \text{ m}$
Robust™ Primer - Våtrom (460 g/m ²) with Robust™ Våtromsmembran (1000 g/m ²)	23 °C – 75/100 % r.h. $s_d = 79 \text{ m}$
Water tightness acc. to EN 13967	watertight
Crack bridging ability	category 1: 0.4 mm
Bond strength	category 2: $\geq 0.5 \text{ MPa}$
Scratch resistance	not relevant
Joint bridging ability	category 2: watertight
Water tightness around penetrations	category 2: watertight
Resistance to temperature	category 2: $\geq 0,5 \text{ MPa}$
Resistance to water	category 2: $\geq 0.5 \text{ MPa}$
Resistance to alkalinity	category 2: $\geq 0.5 \text{ MPa}$
Resistance to mechanical wear	not relevant

Robust Våtromssystem
Steinhardt AS

System built-up, levels of use categories and performances of the product

Annex A1

Sealing tape:



Robust™ Membranbånd



Robust™ Membranduk Bånd
with and without perforation

Robust Våtromssystem
Steinhardt AS

Details and components

Annex A2

Ingoing/outgoing corners:



Robust™ Hjørnemansjett Innvendig
leg length 100 or 140 mm



Robust™ Hjørnemansjett Utvendig
leg length 75 or 140 mm



Robust™ Membranduk Hjørne Innvendig
leg length 120 mm
with and without perforation



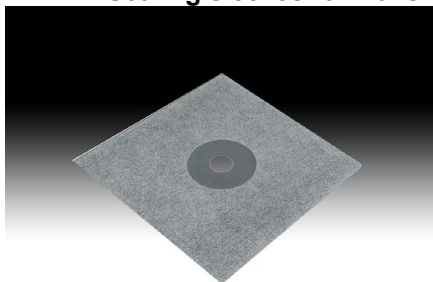
Robust™ Membranduk Hjørne Utvendig
leg length 105 mm
with and without perforation

Robust Våtromssystem
Steinhardt AS

Details and components

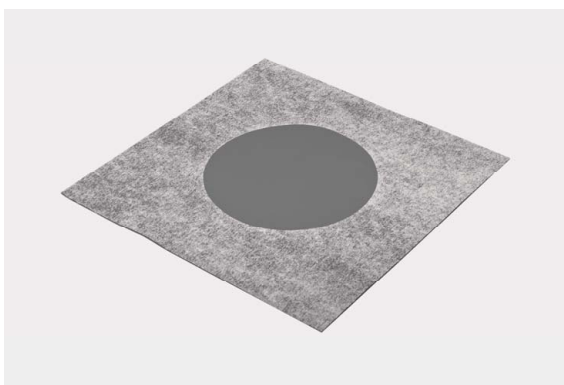
Annex A3

Sealing sleeves for walls:



Robust™ Rørmansjett Ø 6 mm, Robust™ Rørmansjett Ø 23 mm, Robust™ Rørmansjett Ø 70 mm with and without perforation

Sealing sleeves for floors:



Robust™ Slukmansjett
with and without perforation



Robust™ Selvklebende Mansjett

Robust Våtromssystem
Steinhardt AS

Details and components

Annex A4

Installation

The levels of use categories and the performance of the waterproofing kit can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file 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 kit
- installation with the required tools and adjuvant
- precautions during installation
- inspecting the substrate surface for cleanliness and correct treatment
- inspecting during installation and of the finished watertight membrane and documentation of the results

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Intended use
Specifications

Annex B