

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-05/0197**  
**of 26 March 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

Roof waterproofing MARISEAL 250  
Roof waterproofing MARISEAL 250 FLASH

Product family  
to which the construction product belongs

Liquid applied roof waterproofing on the basis of  
polyurethane

Manufacturer

MARIS POLYMERS S.M.S.A.  
Industrial Area of Inofita  
32011 INOFITA  
GRIECHENLAND

Manufacturing plant

MARIS POLYMERS S.M.S.A.  
Industrial Area of Inofita  
32011 INOFITA  
GRIECHENLAND

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 030350-00-0402

This version replaces

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## Specific part

### 1 Technical description of the product

The liquid applied roof waterproofing "MARISEAL 250" / "MARISEAL 250 FLASH" is a kit, which consists of the components:

- Primer (if required)
- liquid applied roof waterproofing on the basis of a one-component reactive polyurethane
- polyester fleece "MARISEAL FABRIC" as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required. In general, the primer belonging to the substrate is given in the manufacturer technical documents<sup>1</sup>. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The liquid applied roof waterproofing Materials can be applied by pouring and/or brushing.

Depending on the levels the minimum layer thickness of the roof waterproofing applied is 1.6 mm respectively 2.9 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing. The liquid applied roof waterproofing "MARISEAL 250" / "MARISEAL 250 FLASH" does not contain any substances that are intended to inhibit or prevent root penetration (root protection agents).

The components and the system build-up of the roof waterproofing "MARISEAL 250" and "MARISEAL 250 FLASH" are given in Annex A.

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

The liquid applied roof waterproofing is used for the waterproofing of roof surfaces, terraces and balconies.

In the technical file the manufacturer gives information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The product can be used for new roofs or for upgrading existing roof waterproofing. It can also be used on vertical surfaces.

The categorisation according to use is given in Annex A.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 10 respectively 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.

The levels of use categories and performances given in Section 3 are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents.

<sup>1</sup> 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 roof waterproofing made from that and it is deposited with DIBt.

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

#### 3.1 Basic Works Requirement 2: Safety in case of fire

Essential characteristic	Performance
External fire performance	see annex A
Reaction to fire	see annex A

#### 3.2 Basic Works Requirement 3: Hygiene, health and the environment

Content, emission and/or release of dangerous substances	
Release scenario	S/M2
Substance/s classified as EU-cat. Carc. 1A and/or 1B <sup>a)</sup>	The kit does not contain these dangerous substances. <sup>b)</sup>
Substance/s classified as EU-cat. Muta. 1A and/or 1B <sup>a)</sup>	
Substance/s classified as EU-cat. Repr. 1A and/or 1B <sup>a)</sup>	
Essential characteristic	Performance
Water vapour permeability	see annex A
Watertightness	see annex A
Resistance to wind loads	see annex A
Resistance to mechanical damage (perforation)	see annex A, levels of use categories
Resistance to fatigue movement	see annex A
Resistance to the effects of low and high surface temperature	see annex A
Resistance to ageing media (heat and water)	see annex A
Resistance to UV radiation in the presence of moisture	see annex A
Resistance to plant roots	see annex A
Effects of variations in kit components and site practices	see annex A
Effects of day joints	see annex A

<sup>a)</sup> In accordance with Regulation (EC) No 1272/2008

<sup>b)</sup> Assessment based on the detailed manufacturer's statements

#### 3.3 Basic Works Requirement 4: Safety and accessibility in use

Essential characteristic	Performance
Slipperiness	see annex A

#### 3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

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 030350-00-0402 the applicable European legal act is: 98/599/EC and amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is: 2001/596/EC

The system to be applied is: 3

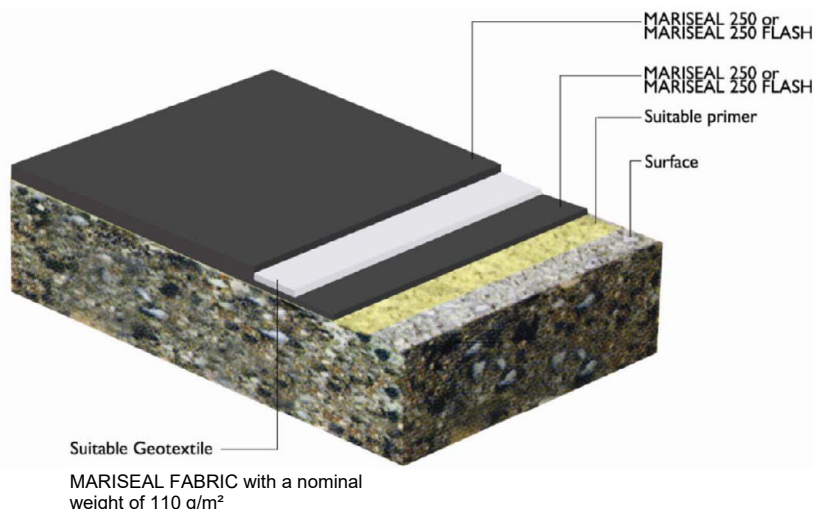
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 26 March 2021 by Deutsches Institut für Bautechnik

Bettina Hemme  
Head of Section

*beglaubigt:*  
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Description of the product			
Minimum layer thickness	1.6 mm	2.9 mm	
minimum quantity consumed:	2.4 kg/m <sup>2</sup>	4.1 kg/m <sup>2</sup>	
Roof slope	S1 to S4 (from < 5° to > 30°)		
<b>Performance of the product:</b>	<b>Description / Class / Level</b>		
External fire performance	EN 13501-5	F <sub>ROOF</sub>	
Reaction to fire	EN 13501-1	E	
Statement on dangerous substances	see section 3.2		
Water vapour diffusion resistance factor $\mu$	$\mu \approx 1830$		
Watertightness	watertight		
Resistance to wind loads	$\geq 50$ kPa		
Resistance to mechanical damage (perforation) (compressible and non-compressible substrates)	P1 to P3 (from low to normal)	P1 to P4 (from low to high)	
Resistance to fatigue movement	W2	W3	
Resistance to the effects of	low surface temperature	TL3 (-20 °C)	
	high surface temperature	TH4 (90 °C)	
Working life according to the resistance to ageing media (heat and water)	W2 (10 years)	W3 (25 years)	
UV resistance in presence of moisture (climatic zones)	M and S (moderate and severe climatic)		
Resistance to plant roots	no performance assessed		
Effects of variations in kit components and site practices	at 8 °C	Maximum tensile strength	9,7 MPa
		Elongation	27,7 %
		Dynamic identification	P3
	at 40 °C	Maximum tensile strength	10,4 MPa
		Elongation	29,9 %
		Dynamic identification	P3
Effects of day joints	$\geq 300$ kPa		
Resistance to slipperiness	no performance assessed		

**Roof waterproofing MARISEAL 250**  
**Roof waterproofing MARISEAL 250 FLASH**  
**System built up and classification**

Annex A

## Installation

The levels of use categories and the performances of the roof waterproofing 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 marked components of the kit
- installation with the required tools and adjuvants, e.g. "MARISEAL 250 FLASH" for vertical and strong pitched areas
- precautions during installation
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product
- inspecting compliance with suitable weather and curing conditions
- ensuring a thickness of the cured waterproofing of at least 1.6 mm respectively 2.9 mm by processing appropriate minimum quantities of material
- inspections during installation and of the finished product and documentation of the results

<b>Roof waterproofing MARISEAL 250</b> <b>Roof waterproofing MARISEAL 250 FLASH</b>	Annex B
<b>Intended use</b> Specifications	