

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-17/0508
of 25 May 2018

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

MasterSeal M 689

Product family
to which the construction product belongs

Liquid applied roof waterproofing on the basis of a two
component polyurea

Manufacturer

BASF Coatings GmbH
Donnerschweer Straße 372
26123 Oldenburg
DEUTSCHLAND

Manufacturing plant

Manufacturing plant 372

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

ETAG 005 Part 6: "Specific stipulations for kits based on
polyurethane", edition March 2000, revision March 2004,
used as EAD according to Article 66 Paragraph 3 of
Regulation (EU) No 305/2011.

This version replaces

ETA-17/0508 issued on 20 October 2017

**European Technical Assessment
ETA-17/0508**

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "MasterSeal M 689" is a kit, which consists of the components:

- liquid applied roof waterproofing on the basis of a two-component polyurea
- coloured coating on the same basis (optional)

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 documents¹. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

As an assembled system these components form a homogeneous seamless roof waterproofing. The components and the system build-up of the roof waterproofing "MasterSeal M 689" are given in Annex A.

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

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

The product is suitable for compressible substrates (e.g. insulation boards) and non-compressible substrates (e.g. steel, concrete).

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

The levels of use categories are 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 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.

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
External fire performance	See Annex A
Reaction to fire	See Annex A

¹ The manufacturer's technical documents comprises 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.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Content, emission and/or release of dangerous substances:	
CMR-Substances Substance/s classified as EU-cat. Carc. 1A and/or 1B ^{a)} Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)} Substance/s classified as EU-cat. Repr. 1A and/or 1B ^{a)}	The product does not contain these dangerous substances. ^{b)}
Release scenario regarding BWR3:	
Resistance to mechanical damage (perforation)	See Annex A
Resistance to plant roofs	See Annex A

^{a)} In accordance with Regulation (EC) No 1272/2008.

^{b)} Assessment based on the detailed manufacturer's statements

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	See Annex A
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.

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

In accordance with ETAG 005-6 used as EAD, the applicable European legal act is: 98/599/EC.

The system to be applied is: 3

In addition, with regard to e.g. reaction to fire for products covered by this ETAG the applicable European legal act is: 2001/596/EG

The system to be applied is: 3

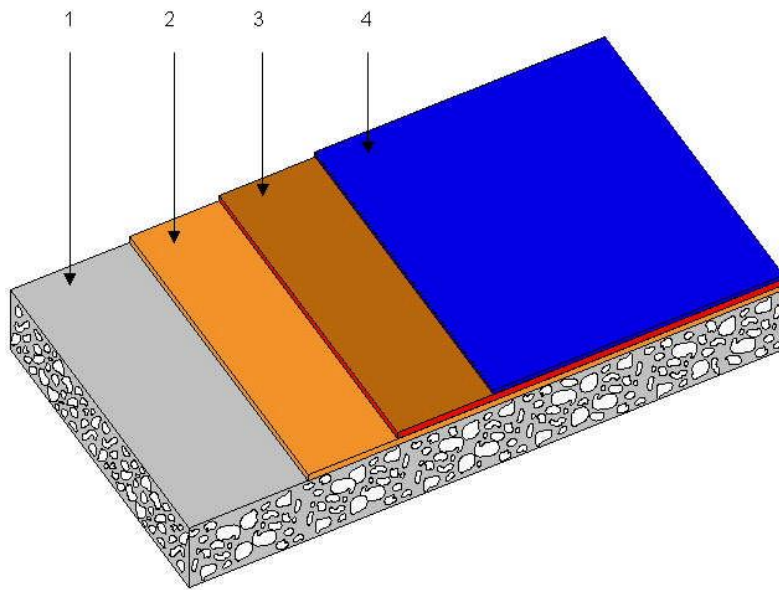
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 25 May 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Hannoun



Components

- 1 Substrate
- 2 Primer
- 3 MasterSeal M 689
- 4 Top Coat (optional)

Applicable to the roof waterproofing "**MasterSeal M 689**"

Minimum layer thickness	2,4 mm	
minimum quantity consumed:	2,4 to 3,0 kg/m ²	
<u>Levels of use categories according to ETAG 005 with relation to:</u>		
Working life:	W2 (10 years)	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation) Compressible substrates and non-compressible substrates	P1 to P4	
Roof slope	S1 to S4 (each roof pitch)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	No performance assessed
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor μ		$\mu \approx 2320$
Watertightness		pass
Statement on dangerous substances		see section 3.2
Resistance to plant roots		No performance assessed
Resistance to wind loads		≥ 50 kPa
Resistance to slipperiness		No performance assessed

MasterSeal M 689
BASF Coatings GmbH

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

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
- 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 2.4 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

MasterSeal M 689 BASF Coatings GmbH	Annex B
Intended use Specifications	