

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-17/0354
of 4 July 2017

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

STT TAURUS MEGAFLEX

Product family
to which the construction product belongs

Liquid applied roof waterproofing kit on the basis of
polymer modified bitumen emulsions

Manufacturer

STT GmbH
Ebersdorf 226
8273 Ebersdorf
ÖSTERREICH

Manufacturing plant

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

Guideline for European technical approval of "Liquid
applied roof waterproofing kits", ETAG 005 Part 2:
"Specific stipulations for kits based on polymer modified
bitumen emulsions and solutions",
used as European Assessment Document (EAD)
according to Article 66 Paragraph 3 of Regulation (EU)
No 305/2011.

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "STT TAURUS MEGAFLEX" is a kit, which consists of the components:

- liquid applied roof waterproofing "STT TAURUS MEGAFLEX" on the basis of a polymer modified bitumenemulsion
- polyester fleece as reinforcement

The minimum layer thickness of the roof waterproofing applied is 1.5 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing.

The components and the system build-up of the roof waterproofing "STT TAURUS MEGAFLEX" 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 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 verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the roof waterproofing of at least 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

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3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Release of dangerous substances	The chemical composition of the product has to be in compliance with the composition deposited at the Technical Assessment Body (DIBt). The product does not contain dangerous substances according to EOTA TR 034 (Version October 2014).
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories
Resistance to plant roofs	See Annex A

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 is only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

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

According to Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287 of 24.10.98, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
Liquid applied roof waterproofing kits	For uses subject to external fire performance regulations	B _{ROOF} (t1)	3
	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	—	3

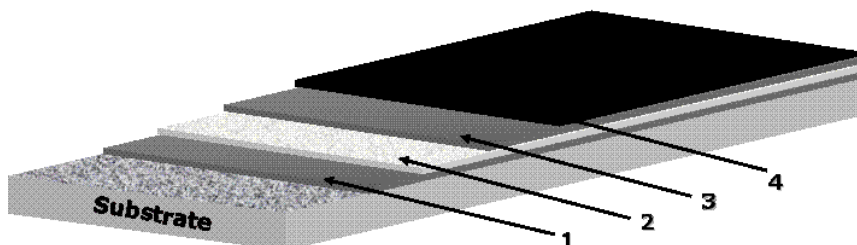
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 4 July 2017 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Gnamou



- 1 – Primer STT TAURUS MEGAFLEX emulsion without accelerator
- 2 – Polyester Geotextile a nominal weight of min 200 g/m²
- 3 – STT TAURUS MEGAFLEX emulsion without accelerator
- 4 – STT TAURUS MEGAFLEX emulsion with accelerator

Roof waterproofing "**STT TAURUS MEGAFLEX**":

Minimum layer thickness	1.5 mm	
minimum quantity consumed:	3.2 kg/m ²	
<u>Levels of use categories according to ETAG 005 with relation to:</u>		
Working life:	W2	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation)	P1 to P2 (non-compressible substrate, e.g. steel/concrete)	
Roof slope	S1 to S4 (all slopes)	
Lowest surface temperature	TL3 (-20 °C)	
Highest surface temperature	TH4 (90 °C)	
Use category related to BWR 3:	SW3	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	F _{ROOF}
Reaction to fire	EN 13501-1	F
Water vapour diffusion resistance factor μ		$\mu \approx 1350$
Watertightness		pass
Statement on dangerous substances		see section 3.2
Resistance to plant roots		npa
Resistance to wind loads		≥ 50 kPa for tear resistant substrates
Resistance to slipperiness		npa

STT TAURUS MEGAFLEX
STT GmbH

System built-up and classifications

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

STT TAURUS MEGAFLEX STT GmbH	Annex B
Intended use Specifications	