

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-20/0277
of 27 September 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

Fixit 222

Product family
to which the construction product belongs

Thermal insulation and sound absorbing
rendering/plastering

Manufacturer

Fixit AG
Im Schachen 416
5113 Holderbank
SCHWEIZ

Manufacturing plant

Fixit AG
Im Schachen 416
5113 Holderbank
SCHWEIZ

This European Technical Assessment
contains

5 pages 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 041559-00-1201

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Specific Part

1 Technical description of the product

The European Technical Assessment applies to the mineral thermal insulation rendering/ plastering with the designation "Fixit 222".

The thermal insulation rendering/ plastering consists of mineral binders, aerogel granulate, mineral lightweight aggregates and additives (pore forming material and hydrophobic agent).

The European Technical Assessment has been issued for the product on the basis of agreed data/information, deposited with Deutsches Institut für Bautechnik, which identifies the product that has been assessed. The European Technical Assessment applies only to the products corresponding to this agreed data/information.

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

The thermal insulation rendering/ plastering is intended to be used as internal and external rendering/plastering on suitable, good bearing, mineral substrates. The thermal insulation rendering/ plastering is applied by machines on the clean, dry and (if necessary) pretreated (e.g. rough cast) respectively primed substrate.

In case of external use the thermal insulation rendering/plastering is protected by a water-repellent, mineral final coat according to the existing requirements at the place of use. The final coat and possibly required surface primers, reinforcements, bonding courses and finishing coats are not covered by this European Technical Assessment.

The performances given in Section 3 are only valid if the thermal insulation rendering/ plastering is used according to the manufacturer's installation instructions and in compliance with the specifications and conditions according to this European Technical Assessment

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the thermal insulation rendering/plastering of at least 50 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 design value of the thermal conductivity shall be laid down according to relevant national provisions.

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

For sampling, conditioning and testing the provisions of the EAD No 041559-00-1201 "Thermal insulation and sound absorbing rendering/plastering" apply.

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire Test according to EN ISO 1716 und EN 13823	Class A2 - s1,d0 according to EN 13501-1:2007 + A1:2009

3.2 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Dry bulk density Test according to EN 1015-10:1999+A1:2006	185 kg/m ³ to 220 kg/m ³
Compressive strength Test according to EN 1015-11:1999+A1:2006	No performance assessed
Compressive strength after weathering cycles	No performance assessed
Adhesion	No performance assessed
Adhesion after weathering cycles	No performance assessed

3.3 Protection against noise (BWR 5)

Essential characteristic	Performance
Sound absorption	No performance assessed

3.4 Energy economy and heat retention (BWR 6)

Essential characteristic	Performance
Thermal conductivity at a mean reference temperature of 10 °C Test according to EN 12667:2001	Declared value for a moisture content of the insulation rendering/plastering at 23 °C and 50 % relative humidity: ¹ For the use as internal rendering/plastering: $\lambda_{D(23,50)} = 0.028 \text{ W/(m} \cdot \text{K)}$ For the use as external rendering/plastering ² : $\lambda_{D(23,50)} = 0.030 \text{ W/(m} \cdot \text{K)}$
Conversion for moisture according to EN ISO 10456:2007+AC:2009 Moisture conversion factor (23 °C/50 % relative humidity to 23 °C/ 80 % relative humidity)	$F_m = 1.04$
Capillary water absorption Test according to EN 1015-18:2002	$\leq 0.40 \text{ kg/(m}^2 \cdot \text{min}^{0.5})$
Water permeability after weathering cycles	No performance assessed
Water vapour diffusion coefficient Test according to EN 1015-19:1998+A1:2004	$\mu = 5$
Moisture absorption Test according to EN ISO 12571:2013 at 23 °C/50 % relative humidity at 23 °C/80 % relative humidity	0.015 kg/kg 0.022 kg/kg

¹ The declared value is representative for at least 90 % of the production with a confidence level of 90 % and applies to the density range given in clause 3.2.

² considering an ageing conversion factor of $F_a = 1.05$

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

In accordance with EAD 041559-00-1201, the applicable European legal act is:

Decision 1999/91/EC.

The system to be applied is: 3

In addition, with regard to reaction to fire, the system 1 is to be applied in accordance with the above-mentioned Decision.

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 27 September 2021 by Deutsches Institut für Bautechnik

Christina Pritzkow
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beglaubigt:
Iffländer