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European Technical Assessment

ETA-24/1211
of 20.05.2026

General part

Technical Assessment Body issuing the European Technical Assessment

Österreichisches Institut für Bautechnik (OIB)
Austrian Institute of Construction Engineering

Trade name of the construction product

fischer Panel Bond PU

Product family to which the construction product belongs

Adhesive for wall cladding

Manufacturer

fischerwerke GmbH & Co. KG
Klaus-Fischer-Str. 1
72178 Tumlingen
GERMANY

Manufacturing plant

fischerwerke GmbH & Co. KG
Klaus-Fischer-Str. 1
72178 Tumlingen
GERMANY

This European Technical Assessment contains

7 pages including 2 Annexes

This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of

European Assessment document (EAD)
250005-00-0606 for Adhesive for wall cladding

Specific parts

1. Technical description of the product

This ETA is applicable to the fischer Panel Bond PU system for bonding cladding elements on aluminium alloy subframe in façades. Also to bond cladding panel products made of wood, wood-based materials, plastics, metals and mineral materials onto a metal substructure as defined in European Assessment Document (EAD) 250005-00-0606 “Adhesive for wall cladding”.

The adhesive system fischer Panel Bond PU consists of the following components:

- Adhesive fischer Panel Bond PU: one component polyurethane-based adhesive. Design characteristics are given in table 1.
- fischer Primer PU: liquid consistency primer for the treatment of surfaces (porous and nonporous).
- fischer Cleanprimer PU: liquid consistency primer for the treatment of surfaces (nonporous).
- Depending on the type of substrate to be bonded, the appropriate primer must be selected. The correct primer is to be determined based on the manufacturer’s technical documentation.

Other ancillary products for adhesion surface preparation:

- fischer Panel Bond Tape: double-sided adhesive polyethylene spacer tape. This tape is used for the initial bonding of the cladding elements until the complete curing of the Panel Bond PU adhesive and to ensure the correct dimensions of the adhesive bead.

Components detailed information and data are given in Annex 1 of this ETA. Other external wall cladding products (cladding elements, subframe components, thermal insulation, anchors, etc.) are not part of the kit assessed in this ETA.

Table 1 fischer Panel Bond PU Adhesive design characteristics

| Design characteristics | Values |
|---------------------------------------|-----------------------------------|
| Thickness of adhesive bead | $e = 3.0 \text{ mm}$ |
| Width of adhesive bead | $b \geq 12 \text{ mm}$ |
| Design tensile strength value | $\sigma_{des} = 0.15 \text{ MPa}$ |
| Design static shear stress value | $T_{c,d} = 0.03 \text{ MPa}$ |
| Maximum displacement in dynamic shear | $\Delta_{s,d} = 1.5 \text{ mm}$ |

2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1 Intended use

The adhesive Fischer Panel Bond PU is intended to be used to bond wall cladding panels specified in the following Table onto aluminium alloy (uncoated or coated) supporting frames according to EN 573-3:2019 in ventilated façades. The system can be used from -20°C to $+80^{\circ}\text{C}$, based on EAD. Additional panels shall be approved in consultation with the manufacturer.

Table 2 Cladding materials

| Cladding material | Manufacturer | Type | Primer |
|-------------------|--------------|---------|------------------------|
| Ceramics | Cosentino | Dekton | fischer Primer PU |
| HPL | Trespa | Meteon | fischer Cleanprimer PU |
| Metal Composite | Mitshubishi | Alpolic | fischer Cleanprimer PU |

Table 3 Subframe materials

| Subframe material | Specification | Primer |
|-------------------|----------------------------------|------------------------|
| Aluminum uncoated | EN AW 6063 T66 | fischer Cleanprimer PU |
| HPL | EN AW 6063 T66 - E6 / C-35 black | fischer Cleanprimer PU |

The assessment of the panels for the use as external wall cladding elements is not covered by this ETA or EAD 250005-00-0606.

2.2 Working life/Durability

The provisions made in this European Technical Assessment (ETA) are based on an assumed intended working life of at least 25 years, provided that the conditions for the packaging, transport, storage and installation as well as appropriate use, maintenance and repair are met.

The indications given as to the working life cannot be interpreted as a guarantee given by the manufacturer or the TAB, but should only be regarded as a means for choosing the appropriate products in relation to the expected economically reasonable working life of the works.

3. Performance of the product

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

fischer Panel Bond PU applies class E according EN 13501-1.

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Content, emission and/or release of dangerous substances

Table 4 Leachable substances of fischer Panel Bond PU

| Leachable substances | EC / LC ₅₀ -value |
|---|------------------------------|
| Algae toxicity, daphnia toxicity, luminescent bacteria toxicity | ≥ 100 % after 6 hours |
| TOC | 29.59 mg/l after 64 days |
| Biodegradability | 72 % after 10 days |

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Properties and characteristics

Table 5 Properties and characteristics of fischer Panel Bond PU

| Properties & Characteristics | fischer Panel Bond SI | |
|---|-----------------------|---|
| Tensile stress and elongation at normal temperature (NT) | +23°C | X _m = 1.58 MPa ²⁾ R _{u,5} = 1.45 MPa ¹⁾ C _r = 100% ³⁾ |
| Tensile stress and elongation at low temperature (LT) | -20°C | X _m = 2.99 MPa ²⁾ R _{u,5} = 2.69 MPa ¹⁾ ΔX _m = 1.89 / C _r = 100 % ³⁾ |
| Tensile stress and elongation at high temperature (HT) | +80°C | X _m = 0.88 MPa ²⁾ R _{u,5} = 0.71 MPa ¹⁾ ΔX _m = 0.58 / C _r = 100 % ³⁾ |
| Residual mechanical resistance of the glued connexion | | |
| Tensile stress after ageing under high temperature and high humidity and NaCl atmosphere (HT + HRH) | | X _m = 1.80 MPa ²⁾ ΔX _m = 1.14 C _r = 100 % ³⁾ |
| Shear stress and shear displacement at normal temperature (NT) | | No performance assessed |
| Tensile stress after immersion in water (H ₂ O) | | X _m = 1.53 MPa ²⁾ ΔX _m = 1.39 C _r = 100 % ³⁾ |
| Tensile stress after ageing under high humidity and NaCl atmosphere (HRH + NaCl) | | X _m = 1.43 MPa ²⁾ ΔX _m = 0.91 C _r = 100 % ³⁾ |
| Tensile stress after ageing under high humidity and SO ₂ atmosphere (HRH + SO ₂) | | X _m = 1.58 MPa ²⁾ ΔX _m = 1.00 C _r = 100 % ³⁾ |

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| Properties & Characteristics | fischer Panel Bond SI |
|---|--|
| Tensile stress after cyclic tensile loads (CLT) | $X_m = 1.57 \text{ MPa}^{2)}$ $\Delta X_m = 0.55$ $C_r = 100 \%^{3)}$ |
| Tensile stress after cyclic shear loads (CST) | $X_m = 1.64 \text{ MPa}^{2)}$ $\Delta X_m = 1.04$ $C_r = 100 \%^{3)}$ $S_{t,c} = 0.19^{2)}$ |
| Shear creep and climatic ageing | $S_{t,v} = 0.37 \text{ mm}^{2)}$ |
| Tear resistance (TR) | $X_m = 1.70 \text{ MPa}^{2)}$ $\Delta X_m = 1.58$ $C_r = 100 \%^{3)}$ |

- 1) characteristic value c is giving 75% confidence that 95% of the test results will be higher than this value
 2) m = mean value
 3) cohesive rupture in the adhesive

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

4.1 AVCP system

According to Decision 1999/470/EC of the European Commission as amended by the decision 2001/596/EC of 8th January 2001, for construction adhesives the applicable systems of AVCP is system 2+ for any use except to regulations on reaction to fire and system 3 for uses subject to regulations on reaction to fire.

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 in the control plan deposited with the Technical Assessment Body Austrian Institute of Construction Engineering.

For type testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between Österreichisches Institut für Bautechnik and the notified body.

Issued in Vienna on 20.05.2026
 by Österreichisches Institut für Bautechnik

The original document is signed by

Thomas Rockenschaub
 Managing Director

Annex 1

Table A1 Characteristics of fischer Panel Bond PU

| Characteristics | Performance |
|--|--|
| Shrinkage | $\Delta V = 10.1 \% ^1$ |
| Specific mass (density) | $1.19 \text{ g/cm}^3 \pm 10\%$ |
| Effects of materials in contact | No performance assessed. Materials in contact according to table 2 and table 3 shall be tested in the respective systems. No discoloration in these combinations shall be observed. |
| Tensile elastic modulus $E_{secant (0.5\%-1.0\%)}$ | $1.94 \pm 0,5 \text{ MPa}$ |
| Flow resistance | no flow |
| Shore hardness (scale A) | ≥ 47 |
| Thermogravimetric analysis | according to the curve obtained in the tests |
| Colour measurement (colorimetry) | Black (L = 25,60; a = -0,0; b = -0,5) |

¹⁾ indicate a decrease of volume

Table A4 Cladding materials

The following table specifies the cladding material approved by fischer through testing according EAD 250005-00-0606.

| Cladding material | Manufacturer | Type | Primer |
|-------------------|--------------|---------|------------------------|
| Ceramics | Cosentino | Dekton | fischer Primer PU |
| HPL | Trespa | Meteon | fischer Cleanprimer PU |
| Metal Composite | Mitshubishi | Alpolic | fischer Cleanprimer PU |

The assessment of the panels for the use as external wall cladding elements is not covered by this ETA or EAD 250005-00-0606.

Table A5 Subframe materials

The following table specifies the subframe material approved by fischer through testing according EAD 250005-00-0606.

| Subframe material | Specification | Primer |
|-------------------|----------------------------------|------------------------|
| Aluminum uncoated | EN AW 6063 T66 | fischer Cleanprimer PU |
| HPL | EN AW 6063 T66 - E6 / C-35 black | fischer Cleanprimer PU |

Annex 2

A2.1 Manufacturing

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product that has been assessed. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

All specific provisions of fischer Panel Bond PU about e. g. storage, transportation, installation, working time, etc. shall be taken to the technical literature of the manufacturer.

A2.2 Design, installation, maintenance and repair

A2.2.1 Design of the external wall cladding

The verification of the minimum dimensions of the adhesive bead, bead length and minimum number of beads by each cladding panel shall be designed by means of calculation, considering the design characteristics given in paragraph 1 of this ETA. National safety factors, other national provisions and specific provisions given by adhesive manufacturer shall be taken into account.

The verification of the adherence on the specific materials (cladding panels and subframe profiles) to be used on-site shall be assessed by means of a peel test according to EAD 250005-00-0606.

Construction details regarding drainage and ventilation provisions:

Water stagnation is not allowed in the vicinity of the adhesive bead.

Therefore, the bonded cladding shall be designed with an efficient drainage and ventilation.

The first layer behind ventilated air space (e.g. insulation layer) should be composed by materials with low water absorption.

A2.4.2 Installation

The Installation shall be carried out by appropriately trained, qualified personnel, under the supervision of the person responsible for technical matters of the site and the provisions of the manufacturer given in its technical literature. Product shelf life and storage conditions shall be respected.

The Installation shall be executed in temperature from +5°C to +35°C and shall be carried out according to manufacturer's specification and using the components specified in ETA.

A2.4.3 Maintenance and repair

Maintenance of the external wall claddings using fischer Panel Bond PU includes inspections on-site, appearance of any damage as cracking, detachment, delamination, mould presence, corrosion presence or water accumulation due to permanent moisture or permanent irreversible deformation.

Repair to localized damaged areas shall be carried out with the same components and following the repair instructions given by the manufacturer.

A2.4.4 Responsibility of the manufacturer

It is the responsibility of the ETA holder to ensure that the information on the related component requirements, their fabrication and setting is given to the person concerned. This information may be made by reproduction of the relevant parts of the European technical assessment.