



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-12/0383 of 9 June 2022

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the Deutsches Institut für Bautechnik **European Technical Assessment:** Trade name of the construction product Capatect WDVS "B" with mineralic base coats Product family External Thermal Insulation Composite System with to which the construction product belongs rendering on expanded polystyrene intended for use on building walls Manufacturer CAPAROL Farben Lacke Bautenschutz GmbH Roßdörfer Straße 50 64372 Ober-Ramstadt DEUTSCHLAND Manufacturing plant Caparol Farben Lacke Bautenschutz GmbH Roßdörfer Straße 50 64372 Ober-Ramstadt DEUTSCHLAND This European Technical Assessment 30 pages including 5 annexes which form an integral part of this assessment contains EAD 040083-00-0404 This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of This version replaces ETA-12/0383 issued on 15 May 2019

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Specific part

1 Technical description of the product

This product is an ETICS (External Thermal Insulation Composite System) with rendering - a kit comprising components which are factory-produced by the manufacturer or component suppliers. It's made up on site from these. The ETICS manufacturer is ultimately responsible for the ETICS.

The ETICS kit comprises a prefabricated insulation product of expanded polystyrene (EPS) to be bonded and if necessary additional mechanically fixed onto a wall. The methods of fixing and the relevant components are specified in annex 1.

The insulation product is faced with a rendering system consisting of one base and finishing coat (site applied), the base coat contains reinforcement. The rendering system is applied directly to the insulating panels, without any air gap or disconnecting layer.

The ETICS may include special fittings (e.g. base profiles, corner profiles ...) for connection to adjacent building elements (apertures, corners, parapets...). Assessment and performance of these components is not addressed in this ETA, however the ETICS-manufacturer is responsible for adequate compatibility and performance within the ETICS when the components are delivered as a part of the kit.

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

The performances in Section 3 can only be assumed if the ETICS is used in accordance with the specifications and under the boundary conditions specified in Annexes 2 to 5.

The verifications and assessment methods on which this ETA is based lead to the assumption of a working life of the ETICS "Capatect WDVS "B" with mineralic base coats" of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, but are to be regarded only as a means for choosing the right products in relation to the assumed economically reasonable working life of the works.

For use, maintenance and repair, the finishing coat shall normally be maintained in order to fully preserve the ETICS performance. Maintenance includes at least:

- visual inspection of the ETICS,
- the repairing of localized damaged areas due to accidents,
- the aspect maintenance with products compatible with the ETICS (possibly after washing or ad hoc preparation).

Necessary repairs are to be carried out as soon as the need has been identified.

The information on use, maintenance and repair is given in the manufacturer's technical documentation.

It is the responsibility of the manufacturer to ensure that this information is made known to the concerned people.



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3 Characteristics of products and methods of verification

3.1 Safety in case of fire (BWR 2)

| Essential characteristic | Performance |
|---|--|
| Reaction to fire of the ETICS | (see annex 2) Euroclass according to EN 13501-1 |
| Reaction to fire of the EPS-insulation product | (see annex 2) Euroclass E according EN 13501-1 |
| Apparent density of the EPS-insulation product according to EN 1602 | $\rho_a \leq 30 \ [kg/m^3]$ |

3.2 Hygiene, health and environment (BWR 3)

| Essential characteristic | Performance | | |
|---|--|--|--|
| Release of dangerous substances | no performance assessed | | |
| Water absorption Base coat | (see annex 3.1) | | |
| after 1 hour after 24 hours | Average [kg/m²] Average [kg/m²] | | |
| Rendering system after 1 hour after 24 hours EPS insulation product after 24 hours | Average [kg/m²] Average [kg/m²] | | |
| Water-tightness of the ETICS: Hygrothermal behaviour on the test wall | Maximum value 0.5 [kg/m²] Pass without defects | | |
| Water-tightness of the ETICS: Freeze/thaw behaviour | The water absorption of the rendering system with all finishing coats except "Capatect AmphiSilan Fassadenputz K SPRINTER" and base coat "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" is less than 0.5 kg/m ² after 24 hours. The ETICS with the finishing coat "Capatect AmphiSilan Fassadenputz K SPRINTER" has been assessed as freeze/thaw resistant according to the simulated method. For the base coat "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" was no performance assessed. | | |
| Impact resistance | (see annex 3.2) Category | | |
| Water vapour permeability - Rendering system | (see annex 3.3) s _d value [m] | | |
| - EPS insulation product | μ = 20 - 78 Thickness of the insulation product 400 [mm | | |



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3.3 Safety and accessibility in use (BWR 4)

| Essential characteristic | Performance |
|--|--|
| Bond strength between base coat and EPS-insulation product | (see annex 4.1) - Minimal value/ average [kPa], rupture type Initial state (28 d immersion) - Minimal value/ average [kPa], rupture type: after hygrothermal cycles |
| between adhesive and substrate | (see annex 4.2) Thickness [mm] of the used adhesives Minimal value/average [kPa]: Initial state (dry conditions) Minimal value/ average [kPa]: after 2 d immersion in water, 2 h drying Minimal value/ average [kPa]: after 2 d immersion in water, 7 d drying |
| between adhesive and EPS insulation | (see annex 4.3) Thickness [mm] of the used adhesives Minimal value/average [kPa]: Initial state (dry conditions) Minimal value/ average [kPa]: after 2 d immersion in water, 2 h drying Minimal value/ average [kPa]: after 2 d immersion in water, 7 d drying |
| Minimal bonded surface area | S [%] = $0.03 \text{ N/ mm}^2 \times 100 / 0.8 \text{ N/ mm}^2$ S = 37.5% The minimal bonded surface S of bonded ETICS is 40 % |
| Fixing strength (displacement test) | Test not required therefore no limitation of ETICS length required. |
| Wind load resistance of ETICS pull-through test of fixing static foam block test | (see annex 4.4) - R_{panel} [kN/fixing], - R_{joint} [kN/fixing], - Plate diameter of anchor ≥ 60 mm resp. ≥ 90 mm - plate stiffness ≥ 0.3 [kN/mm²] - load resistance of the anchor plate ≥ 1.0 [kN] |
| Tensile strength perpendicular to the faces | |
| in dry conditions standard EPS | $\begin{array}{l} \sigma_{mt} \geq 80 \; [kPa] \; (bonded \; ETICS) \\ \sigma_{mt} \geq 100 \; [kPa] \; (bonded \; ETICS \; with \; anchors) \\ \sigma_{mt} \geq 150 \; [kPa] \; (bonded \; ETICS \; with \; profiles) \end{array}$ |
| elastified EPS | σ _{mt} ≥ 80 [kPa] |



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| Essential characteristic | Performance |
|--|---|
| Shear strength of the ETICS | $20 \leq f_{\tau k} \leq 170 \; [kPa]$ |
| Shear modulus of the ETICS | |
| standard EPS elastified EPS | $\begin{array}{l} 1.0 \leq G_m \leq 3.8 \; [MPa] \\ 0.3 \leq G_m \leq 1.0 \; [MPa] \end{array}$ |
| Pull-through resistance of the fixing of profiles | - Minimal value: 0.99 [kN] - Average: 1.02 [kN] |
| Render strip tensile test | (siehe Anhang 4.5) crack width w _{rk} [mm] |
| Bond strength after ageing finishing coat tested on the rig finishing coat not tested on the rig | (see annex 4.6) Minimal value/ average [kPa] Minimal value/ average [kPa] |
| Tensile strength of the glass fibre mesh in the as-delivered state | (see annex 4.7) Average [N/mm] |
| Residual tensile strength of the glass fibre mesh after aging | (see annex 4.7) Average [N/mm] |
| Relative residual tensile strength of the glass fibre mesh after aging | (see annex 4.7) Average [%] |
| Elongation of the glass fibre mesh in the as-delivered state | (see annex 4.7) Average [%] |
| Elongation of the glass fibre mesh after aging | (see annex 4.7) Average [%] |

3.4 Protecion against noise (BWR 5)

| Essential characteristic | Performance | |
|---|-------------------------|--|
| Airborne sound insulation of ETICS | no performance assessed | |
| Dynamic stiffness of the EPS insulation product | no performance assessed | |
| Air flow resistance of the EPS insulation product | no performance assessed | |

3.5 Energy economy and heat retention (BWR 6)

| Essential characteristic | Performance | |
|---|---|--|
| Thermal resistance and thermal transmittance of ETICS | Calculated value or measurement value R (m²·K)/W, see annex 5 | |



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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 No. 010083-00-0404 the applicable European legal act is: 97/556/EC changed by 2001/596/EC

The systems to be applied are:

| Product | Intended use | Levels or classes (Reaction to fire) | Systems |
|---|---|---|---------|
| | ETICS in external wall subject to fire regulations | A1 ⁽¹⁾ , A2 ⁽¹⁾ , B ⁽¹⁾ , C ⁽¹⁾ | 1 |
| Capatect WDVS "B" with mineralic base coats | | A1 ⁽²⁾ , A2 ⁽²⁾ , B ⁽²⁾ , C ⁽²⁾ , D, E, (A1 to E) ⁽³⁾ , F | 2+ |
| | ETICS in external wall not subject to fire regulations | any | 2+ |

(1) Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

⁽²⁾ Products/materials not covered by footnote (1)

(3) Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of Classes A1 according to Commission Decision 96/603/EC)

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable European Assessment Document (EAD)

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 9 June 2022 by Deutsches Institut für Bautechnik

Dipl.-Ing. Anja Rogsch Head of Section *beglaubigt:* Windhorst



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Annex 1

Composition of the ETICS

| | Components National application documents shall be taken into account | Coverage [kg/m²] | Thickness [mm] |
|-----------------------------|--|------------------------|-------------------|
| Insulation | Bonded ETICS: | | |
| material with associated | Insulation product | | |
| method of | factory-prefabricated expanded polystyrene (EPS)* | | |
| fixing | – standard EPS | _ | ≤ 400 |
| | – elastified EPS | - | ≤ 200 |
| | Adhesives | | |
| | Capatect Klebe- und Armierungsmasse 186 M (cement based powder requiring addition of about 20 - 24 % of water) | 3.0 to 5.0 (powder) | _ |
| | – Capatect Klebe- und Spachtelmasse 190 | 3.0 to 5.0 | - |
| | (cement based powder requiring addition of about 20 - 24 % of water) | (powder) | |
| | – Capatect Klebe- und Armierungsmasse 133 Leicht | 3.0 to 3.5 | _ |
| | (cement based powder requiring addition of about 36 - 40 % of water) | (powder) | |
| | – Capatect Dämmkleber 185 | 4.0 to 5.0 | _ |
| | (cement based powder requiring addition of about 20 % of water) | (powder) | |
| | – Capatect ArmaReno 700 | 3.5 to 5.0 | - |
| | (cement based powder requiring addition of about 20 - 25 % of water) | (powder) | _ |
| | – Capatect ZF-Spachtel 699 | 2.0 to 4.0 | |
| | (organic based ready to use paste) | (prepared) | |
| | Capatect Klebemasse 190 S (cement based powder requiring addition of | 3.0 to 5.0 | _ |
| | about 22 - 24 % of water) | (powder) | |
| | – Capatect Klebe- und Armierungsmasse 131 SL | 3.0 to 4.5 | _ |
| | (cement based powder requiring addition of about 40 - 43 % of water) | (powder) | |
| | – Capatect Klebe- und Armierungsmasse 186 M | 3.0 to 5.0 | _ |
| | SPRINTER (cement based powder requiring addition of about 22 % of water) | (powder) | |
| | - Capatect X-TRA 300 | 4.0 to 5.0 | - |
| | (cement based powder requiring addition of about 36 - 40 % of water) | (powder) | |
| | Mechanically fixed ETICS with profiles and supplementary adhesive: | | |
| | Insulation product | | |
| | factory-prefabricated expanded polystyrene (EPS)* standard EPS | _ | 60 to 200 |
| | Supplementary adhesive | | |
| | (equal to bonded ETICS) | | |



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| | Components National application documents shall be taken into account | Coverage [kg/m²] | Thickness [mm] |
|---|---|--|---|
| Insulation material with associated method of fixing | Profiles Halteleiste PVC Verbindungsleiste PVC Polyvinyl chloride (PVC) - profiles Anchors for profiles WS 8 L ejotherm SDK U SDF-K plus | | |
| | ejotherm NK U Mechanically fixed ETICS with anchors and supplementary adhesive: Insulation product factory-prefabricated expanded polystyrene (EPS)* | | |
| | standard EPS elastified EPS Supplementary adhesive | - | 60 to 400 60 to 200 |
| | (equal to bonded ETICS) Anchors for insulation product all anchors with ETA according to EAD 330196-01-0604¹ | | |
| Base coat | Capatect Klebe- und Armierungsmasse 186 M | 4.5 to 7.5 | 3.0 to 5.0 |
| | Capatect ArmaReno 700 Capatect Klebe- und Armierungsmasse 133 Leicht Capatect Klebe- und Armierungsmasse 186 M SPRINTER Identical with the equally named adhesives given above. | 4.5 to 10.5 5.5 to 11.0 3.5 to 6.0 | 3.0 to 7.0 5.0 to 10.0 3.0 to 5.0 |
| Glass fibre mesh | Capatect Gewebe 650 Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m ² and mesh size of about 4.0 mm x 4.0 mm. | - | _ |
| | Capatect Gewebe 666 Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 160 g/m ² and mesh size of about 6.0 mm x 6.0 mm. | _ | _ |
| | Capatect Panzergewebe 652 (implemented in addition to the standard mesh to improve the impact resistance) Alkali- and slide-resistant glass fibre mesh with mass per unit area of about 330 g/m ² and mesh size of about 6.0 mm x 6.0 mm. | _ | _ |

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| | Components National application documents shall be taken into account | Coverage [kg/m²] | Thickness [mm] |
|-------------------|--|---------------------|----------------------------|
| Key coat | Ready to use pigmented liquid – styrol acrylate binder | | |
| | Putzgrund 610 | ca. 0.20 l/m² | |
| | Putzgrund 610 SPRINTER | ca. 0.20 l/m² | |
| | For the compatibility with the finishing coats see below. | | |
| Finishing Coat | All finishing coats except "Capatect AmphiSilan- Fassadenputz K SPRINTER" to use with key coat "Putzgrund 610" if applicable: ^{***} | | |
| | Applicable with all base coats except "Capatect Klebe- und Armierungsmasse 186 M SPRINTER " | | |
| | • Ready to use pastes – acrylate binder: | | |
| | Capatect Fassadenputz R** (particle size 1.5 to 3.0 mm) | 2.8 to 3.6 | |
| | Capatect Fassadenputz K** (particle size 1.5 to 3.0 mm) | 2.7 to 4.3 | regulated by |
| | • Ready to use pastes – acrylate/silicone resin emulsion: | | particle size |
| | Capatect AmphiSilan Fassadenputz R** (particle size 2.0 to 3.0 mm) | 2.5 to 3.5 | |
| | Capatect AmphiSilan Fassadenputz K** (particle size e 1.5 to 3.0 mm) | 2.5 to 4.1 | |
| | • Ready to use paste – vinyl acetate ethylene binder: | | |
| | Capatect Fassadenputz Fein | 3.0 to 4.5 | 2.0 to 3.0 |
| | • Ready to use pastes – silicate/styrol acrylate binder: | | |
| | Capatect Sylitol Fassadenputz R** (particle size 2.0 to 3.0 mm) | 2.5 to 4.0 | |
| | Capatect Sylitol Fassadenputz K** (particle size 1.5 to 3.0 mm) | 2.5 to 4.0 | |
| | Cement based powder requiring addition of about 28 – 44 % of water: | | regulated by particle size |
| | Capatect Mineral-Leichtputz R** (particle size 2.0 to 3.0 mm) | 2.3 to 4.5 | |
| | Capatect Mineral-Leichtputz K** (particle size 1.5 to 5.0 mm) | 2.0 to 4.0 | J |
| | Cement based powder requiring addition of about 20-24% of water: | | |
| | Capatect Mineralputz R** (particle size 2.0 to .3.0 mm) | about 3.0 | regulated by particle size |
| | Capatect Mineralputz K** (particle size 2.0 to 3.0 mm) | about 3.0 | |
| | Capatect Feinspachtel 195 | 4.0 to 6.0 | 2.0 to 3.0 |



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| | Components National application documents shall be taken into account | Coverage [kg/m²] | Thickness [mm] |
|-------------------|---|---------------------|-------------------|
| Finishing coat | Only applicable with the base coat "Capatect Klebe-und Armierungsmasse 186 M" exclusively | | |
| | Ready to use pastes – silicate/organic hybrid dispersion | | |
| | Capatect ThermoSan Fassadenputz NQG R** (particle size 1.5 to 3.0 mm) | 1.8 bis 2.6 | ⊱regulated by |
| | Capatect ThermoSan Fassadenputz NQG K** (particle size 1.5 to 3.0 mm) | 1.3 bis 3.2 | particle size |
| | Ready to use pastes – styrol acrylate/ vinylic binder: Capatect AmphiSilan Fassadenputz FEIN (particle size 1.0 mm) | 1.4 to 2.0 | 1.0 to 1.5 |
| | Capatect AmphiSilan Fassadenputz K10 (particle size 1.0 mm) | 1.4 to 2.0 | 1.0 to 1.5 |
| | Ready to use pastes – polymer dispersion binder: Capatect Putz 622 W SilaCryl (particle size 1.5 mm) | 2.5 to 3.5 | 1.3 to 1.7 |
| | Cement based powder requiring addition of about 20 – 24 % of water: | | |
| | Capatect ArmaReno 500 | 2.8 to 4.2 | 2.0 to 3.0 |
| | Only applicable with the base coats "Capatect Klebe- und Armierungsmasse 133 Leicht" and "Capatect Klebe- und Armierungsmasse 186 M"exclusively | | |
| | Cement based powder requiring addition of about 40 % of water: | | |
| | Capatect Modellier- und Spachtelputz 134 | about 4.0 | 2.0 to 5.0 |
| | Only applicable with the base coat "Capatect Klebe- und Armierungsmasse 133 Leicht" exclusively | | |
| | Cement based powder requiring addition of about 25 % of water: | | |
| | Capatect Edelkratzputz | 13.0 to 16.0 | 6.0 to 12.0 |
| | Only applicable with the base coat "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" exclusively | | |
| | Cement based powder requiring addition of about 22 – 26 % of water. | | |
| | Capatect Mineralputz K SPRINTER | 2.0 to 3.5 | 1.0 to 3.0 |
| | To use with key coat "Putzgrund 610 SPRINTER" if applicable: | | |
| | Ready to use paste – pure acrylate/silicone resin emulsion: | | |
| | Capatect AmphiSilan-Fassadenputz K SPRINTER | 3.2 to 4.1 | 2.0 to 3.0 |



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| | Components National application documents shall be taken into account | Coverage [kg/m²] | Thickness [mm] |
|-----------------------|---|--------------------------|-------------------|
| Finishing coat | Only applicable with the base coats "Capatect ArmaReno 700" and "Capatect Klebe-und Armierungsmasse 186 M" exclusively | | |
| | Ready to use paste – styrol acrylate binder – associated with synthetic briquettes: Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080 | 4.0 to 5.0 3.0 to 4.0 | 6.0 1.0 to 4.0 |
| Ancillary material | Remain under the manufacturer's responsibility. | | |
| K / R indicates | ricated, uncoated panels made of expanded polystyrene (EPS) shall be used different structures of the finishing coats. In to the installer concerning the use of a key coat remains the responsibility of the | e manufacturer. | |



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Annex 2

Safety in case of fire (BWR 2) Reaction to fire

Euroclass Flame retardant Configurations Organic content according to content EN 13501-1 All base coats except "Capatect Klebemax. 3.9 % no flame retardant und Armierungsmasse 186 M SPRINTER" Euroclass E Euroclass E EPS- insulation product according to according to EN 13501-1 EN 13501-1 Profile --Anchor --**Rendering system:** B-s1.d0 Base coat with finishing coat and compatible key coat indicated in annex 1: Capatect Sylitol Fassadenputz R, max. 6.2 % Capatect Sylitol Fassadenputz K Capatect Mineral-Leichtputz R, no flame retardant Capatect Mineral-Leichtputz K, Capatect Mineralputz R, max. 3.7 % Capatect Mineralputz K, Capatect Feinspachtel 195

| Configurations | Organic content Flame retardant content | | Euroclass according to EN 13501-1 |
|---|---|---|---|
| Base coat "Capatect Klebe- und Armierungsmasse 186 M" | max. 2.3 % | no flame retardant | |
| EPS- insulation product | Euroclass E according to EN 13501-1 | Euroclass E according to EN 13501-1 | |
| Profile | | | |
| Anchor | - | - | B – s1,d0 |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | | |
| Capatect Modellier- und Spachtelputz 134, Capatect ArmaReno 500 | max. 3.7 % | no flame retardant | |

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| Configurations | Organic content | Flame retardant content | Euroclass according to EN 13501-1 |
|---|---|---|---|
| Base coat "Capatect Klebe- und Armierungsmasse 133 Leicht" | max. 3.9 % | no flame retardant | |
| EPS- insulation product | Euroclass E according to EN 13501-1 | Euroclass E according to EN 13501-1 | |
| Profile | - | - | |
| Anchor | - | - | B – s1,d0 |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | | |
| Capatect Modellier- und Spachtelputz 134, Capatect Edelkratzputz | max. 3.7 % | no flame retardant | |

| Configurations | Organic content | Flame retardant content | Euroclass according to EN 13501-1 |
|--|---|---|---|
| All base coats except "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" | max. 3.9 % | no flame retardant | |
| EPS- insulation product | Euroclass E according to EN 13501-1 | Euroclass E according to EN 13501-1 | |
| Profile | - | - | |
| Anchor | - | - | |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | B – s2,d0 | |
| Capatect Fassadenputz R, Capatect Fassadenputz K | | | |
| Capatect AmphiSilan-Fassadenputz R | max. 8.9 % | no flame retardant | |
| Capatect Fassadenputz Fein | | | |
| Capatect AmphiSilan-Fassadenputz K | max. 8.4 % | min 3.0 % | |



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| Configurations | Organic content Flame retardant content | | Euroclass according to EN 13501-1 |
|---|---|---|---|
| Base coat "Capatect Klebe- und Armierungsmasse 186 M" | max. 2.3 % | no flame retardant | |
| EPS- insulation product | Euroclass E according to EN 13501-1 | Euroclass E according to EN 13501-1 | |
| Profile | - | - | |
| Anchor | - | - | |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | | |
| Capatect ThermoSan Fassadenputz NQG R, Capatect ThermoSan Fassadenputz NQG K | denputz NQG R, max. 8.9 % | | B – s2,d0 |
| Capatect AmphiSilan Fassadenputz FEIN, Capatect AmphiSilan Fassadenputz K 10 | max. 8.7 % | | |
| Capatect Putz 622 W SilaCryl | | | |
| Meldorfer Flachverblender mit Meldorfer Ansatzmörtel 080 | max. 9.2 % max. 9.9 % | min. 9.0 % no flame retardant | |

| Configurations | Organic content | Flame retardant content | Euroclass according to EN 13501-1 |
|--|---|---|--|
| Base coat "Capatect ArmaReno 700" | max. 2.8 % | no flame retardant | |
| EPS- insulation product | Euroclass E according to EN 13501-1 | Euroclass E according to EN 13501-1 | |
| Profile | - | - | |
| Anchor | - | - | B – s2,d0 |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | | |
| Meldorfer Flachverblender mit Meldorfer Ansatzmörtel 080 | max. 9.2 % max. 9.9 % | min. 9.0 % no flame retardant | |



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| Configurations | Organic content Flame retardant content | | Euroclass according to EN 13501-1 |
|--|---|--------------------|---|
| Base coat "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" | max. 2.9 % | no flame retardant | |
| EPS- insulation product | Euroclass E Euroclass E according to according to EN 13501-1 EN 13501-1 | | |
| Profile | - | - | |
| Anchor | | | B – s2,d0 |
| Rendering system: Base coat with finishing coat and compatible key coat indicated in annex 1: | | | |
| Capatect AmphiSilan-Fassadenputz K SPRINTER | max. 8.8 % min. 3.0 % | | |
| Capatect Mineralputz K SPRINTER | max. 2.0 % | no flame retardant | |



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Annex 3

Hygiene, health and environment (BWR 3)

3.1 Water absorption (capillarity test) Base coat:

| | Mean value water absorption [kg/m²] | | |
|---|--|------------|--|
| | after 1 h | after 24 h | |
| Capatect Klebe- und Armierungsmasse 186 M | 0.04 | 0.17 | |
| Capatect ArmaReno 700 | 0.02 | 0.32 | |
| Capatect Klebe- und Armierungsmasse 133 Leicht | 0.04 | 0.32 | |
| Capatect Klebe- und Armierungsmasse 186 M SPRINTER | 0.32 | 0.81 | |

Rendering system:

| Base coat with finishing coat "Capatect Klebe- und Armierungsmasse | | e water absorption [kg/m²] |
|---|----------|-------------------------------|
| 186 M " indicated hereafter | after 1h | after 24h |
| Capatect Fassadenputz R/K | 0.07 | 0.47 |
| Capatect AmphiSilan Fassadenputz R/K | 0.06 | 0.48 |
| Capatect Fassadenputz Fein | 0.04 | 0.28 |
| Capatect Sylitol-Fassadenputz R/K | 0.08 | 0.44 |
| Capatect Mineral-Leichtputz R/K | 0.14 | 0.33 |
| Capatect Mineralputz R/K | 0.11 | 0.49 |
| Capatect Feinspachtel 195 | 0.09 | 0.40 |
| CapatectThermoSan Fassadenputz NQG R/K | 0.10 | 0.40 |
| Capatect AmphiSilan Fassadenputz FEIN | 0.00 | 0.20 |
| Capatect AmphiSilan Fassadenputz K 10 | 0.00 | 0.20 |
| Capatect Putz 622 W SilaCryl | 0.10 | 0.20 |
| Capatect ArmaReno 500 | 0.10 | 0.40 |
| Capatect Modellier- und Spachtelputz 134 | 0.06 | 0.27 |
| Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080 | 0.09 | 0.25 |



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| Base coat with finishing coat "Capatect ArmaReno 700" indicated | Mean valu | Mean value water absorption [kg/m²] | | |
|--|-----------|--|--|--|
| hereafter | after 1h | after 24h | | |
| Capatect Fassadenputz R/K | 0.06 | 0.49 | | |
| Capatect AmphiSilan Fassadenputz R/K | 0.03 | 0.32 | | |
| Capatect Fassadenputz Fein | 0.03 | 0.27 | | |
| Capatect Sylitol-Fassadenputz R/K | 0.09 | 0.44 | | |
| Capatect Mineral-Leichtputz R/K | 0.09 | 0.27 | | |
| Capatect Mineralputz R/K | 0.09 | 0.33 | | |
| Capatect Feinspachtel 195 | 0.08 | 0.32 | | |
| Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080 | 0.03 | 0.31 | | |

| Base coat with finishing coat "Capatect Klebe- und Armierungsmasse 133 | Mean value water absorption [kg/m²] | | |
|---|--|-----------|--|
| Leicht " indicated hereafter | after 1h | after 24h | |
| Capatect Fassadenputz R/K | 0.04 | 0.49 | |
| Capatect AmphiSilan Fassadenputz R/K | 0.06 | 0.48 | |
| Capatect Fassadenputz Fein | 0.06 | 0.26 | |
| Capatect Sylitol-Fassadenputz R/K | 0.10 | 0.44 | |
| Capatect Mineral-Leichtputz R/K | 0.10 | 0.29 | |
| Capatect Mineralputz R/K | 0.10 | 0.39 | |
| Capatect Feinspachtel 195 | 0.08 | 0.29 | |
| Capatect Modellier- und Spachtelputz 134 | 0.05 | 0.25 | |
| Capatect Edelkratzputz | 0.43 | 0.46 | |

| Base coat with finishing coat "Capatect Klebe- und Armierungsmasse | Mean value water absorption [kg/m²] | | |
|---|--|-----------|--|
| 186 M SPRINTER " indicated hereafter | after 1h | after 24h | |
| Capatect Mineralputz K SPRINTER | 0.04 | 0.27 | |
| Capatect AmphiSilan Fassadenputz K SPRINTER | 0.26 | 0.74 | |



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3.2 Impact resistance

| | Single | Single standard mesh " Capatect Gewebe 650" | | | |
|--|---|---|-----------------------------|-------------------------|--------------------------------|
| Rendering system: Base coat with finishing coat indicated hereafter. | Capatect Klebe- und Armierungsmasse 186 M | | Capatect ArmaReno 700 | Armierungs | Klebe- und masse 133 cht |
| | t = 3 mm | t = 4 mm | t = 3 mm | t < 10 mm | t = 10 mm |
| Capatect Fassadenputz R/K | | | | | |
| Capatect AmphiSilan Fassadenputz R/K | Categ | jory II | | | |
| Capatect Fassadenputz Fein | Categ | ory III | | | |
| Capatect Sylitol- Fassadenputz R/K | Category II | | Category II | Category III | Category II |
| Capatect Mineral-Leichtputz R/K | | | | | |
| Capatect Mineralputz R/K | | | | | |
| Capatect Feinspachtel 195 | | | | | |
| Capatect ThermoSan Fassadenputz NQG R/K | | | | | |
| Capatect AmphiSilan Fassadenputz FEIN | | | not applica | able in compliance with | |
| Capatect AmphiSilan Fassadenputz K 10 | Categ | ory III | | annex 1 | |
| Capatect Putz 622 W SilaCryl | | | | | |
| Capatect ArmaReno 500 | | | | | |
| Capatect Modellier- und Spachtelputz 134 | Category II complian anne | | nce with | Category III | Category II |
| Capatect Edelkratzputz | not applicable in compliance with annex 1 | | liance with | Cate | gory I |
| Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080 | Category I | | Category II | | icable in nce with ex 1 |

| | Single standard mesh "Capatect Gewebe 650" |
|---|--|
| Rendering system: Base coat with finishing coat indicated hereafter: | Caparol Klebe- und Armierungsmasse 186 M SPRINTER |
| Capatect Mineralputz K SPRINTER | no performance assessed |
| Capatect AmphiSilan Fassadenputz K SPRINTER | Category II |



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| | Single standard mesh "Capatect Gewebe 666" | | |
|---|--|---|--|
| Rendering system: Base coat with finishing coat indicated hereafter: | Capatect ArmaReno 700 (t ≥ 3 mm) | Capatect Klebe- und Armierungsmasse 133 Leicht (t < 10 mm) | |
| Capatect Mineral-Leichtputz K | Category II | Category III | |
| Capatect Mineralputz K | Category II | Category II | |
| Capatect Modellier- und Spachtelputz 134 | not applicable in compliance with annex 1 | Category III | |
| Capatect Edelkratzputz | not applicable in compliance with annex 1 | Category I | |
| Meldorfer Flachverblender mit Meldorfer Ansatzmörtel 080 | Category II | not applicable in compliance with annex 1 | |
| Capatect Fassadenputz Fein | Category II | Category III | |

For the impact resistance for all other combinations of ETICS no performance was assessed.

3.3 Water vapour permeability

| Rendering system: Base coat "Capatect Klebe- und Armierungsmasse 186 M" with finishing coat and compatible key coat indicated hereafter | Equivalent air thickness s₀ | | |
|--|--|--|--|
| Capatect Fassadenputz R/K* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |
| Capatect AmphiSilan Fassadenputz R,K* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.20 m) | | |
| Capatect Fassadenputz Fein* | \leq 1.0 m (Test result obtained with a layer thickness 4 mm: 0.40 m) | | |
| Capatect Sylitol Fassadenputz R/K* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.15 m) | | |
| Capatect Mineral-Leichtputz R/K* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.10 m) | | |
| Capatect Mineralputz R/K* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |
| Capatect Feinspachtel 195* | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |
| Capatect ThermoSan Fassadenputz NQG R/K** | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |
| Capatect AmphiSilan Fassadenputz FEIN** | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |
| Capatect AmphiSilan Fassadenputz K 10 [⊷] | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.35 m) | | |



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| Rendering system: Base coat "Capatect Klebe- und Armierungsmasse 186 M" with finishing coat and compatible key coat indicated hereafter | Equivalent air thickness sd |
|--|--|
| Capatect Putz 622 W SilaCryl** | \leq 1.0 m (Test result obtained with a layer thickness 1.5 mm: 0.95 m) |
| Capatect ArmaReno 500** | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.45 m) |
| Capatect Modellier- und Spachtelputz 134* | \leq 1.0 m (Test result obtained with a layer thickness 4 mm: 0.10 m) |
| Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080* | ≤ 1.0 m (Test result: 0.70 m) |
| * assessed without key coat ** assessed with key coat | |

| | Equivalent air thickness s _d | | | |
|--|--|--|--|--|
| Rendering system: finishing coats with adjacent base coats (evaluated without key coat) | Capatect ArmaReno 700 | Capatect Klebe- und Armierungsmasse 133 Leicht | | |
| Capatect Fassadenputz R/K | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.3 m) | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.3 m) | | |
| Capatect AmphiSilan Fassadenputz R,K | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.2 m) | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.2 m) | | |
| Capatect Fassadenputz Fein | ≤ 1.0 m (Test result obtained with a layer thickness 4 mm: 0.5 m) | ≤ 1.0 m (Test result obtained with a layer thickness 4 mm: 0.6 m) | | |
| Capatect Sylitol Fassadenputz R/K | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.2 m) | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.2 m) | | |
| Capatect Mineral-Leichtputz R/K | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.1 m) | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.1 m) | | |
| Capatect Mineralputz R/K | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.1 m) | ≤ 1.0 m (Test result obtained with a layer thickness 3 mm: 0.2 m) | | |
| Capatect Feinspachtel 195 | ≤ 1.0 m (Test result obtained with a layer thickness 4 mm: 0.1 m) | ≤ 1.0 m (Test result obtained with a layer thickness 4 mm: 0.2 m) | | |
| Capatect Modellier- und Spachtelputz 134 | not applicable in compliance with annex 1 | ≤ 1.0 m (Test result obtained with a layer thickness 4 mm: 0.1 m) | | |
| Capatect Edelkratzputz | not applicable in compliance with annex 1 | ≤ 1.0 m (Test result obtained with a layer thickness 10 mm: 0.2 m) | | |



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| | Equivalent air thickness sd | | | |
|--|---------------------------------|---|--|--|
| Rendering system: finishing coats with adjacent base coats (evaluated without key coat) | Capatect ArmaReno 700 | Capatect Klebe- und Armierungsmasse 133 Leicht | | |
| Meldorfer Flachverblender with Meldorfer Ansatzmörtel 080 | ≤ 1.0 m (Test result: 0.6 m) | not applicable in compliance with annex 1 | | |

| Rendering system: Base coat "Capatect Klebe- und Armierungsmasse 186 M SPRINTER" with finishing coat and compatible key coat indicated in annex 1 | Equivalent air thickness s d |
|--|--|
| Capatect Mineralputz K SPRINTER | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.17 m) |
| Capatect AmphiSilan Fassadenputz K SPRINTER | \leq 1.0 m (Test result obtained with a layer thickness 3 mm: 0.24 m) |



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Annex 4

Safety and accessibility in use (BWR 4)

4.1 Bond strength between base coat and insulation product (EPS)

| | | | Conditioning | |
|--|------------------|------------------------|---------------------------------------|---------------------------------|
| | | Initial state [kPa] | After hygrothermal cycles [kPa] | After freeze/thaw test |
| Capatect Klebe- und | Average | 110 | 131 | |
| Armierungsmasse 186 M | Minimal value | 99 | 99 | |
| Capatect ArmaReno 700 | Average | 110 | 70* | Test not required because |
| | Minimal value | 100 | 60* | |
| Capatect Klebe- und | Average | 150 | 81 | freeze/thaw |
| Armierungsmasse 133 Leicht | Minimal value | 135 | 67* | cycles not necessary |
| Capatect Klebe- und Armierungsmasse 186 M | Average | 128 | 112 | necessary |
| SPRINTER | Minimal value | 125 | 105 | |
| * < 80 kPa but failura in thormal inc | ulation matarial | | | |

* < 80 kPa but failure in thermal insulation material

4.2 Bond strength between adhesive and substrate

| | | Conditoning | | |
|----------------------------|---------------|---------------------------|---|--|
| Substrate: concrete | | Initial state [kPa] | 2 d immersion in water and 2 hrs. drying [kPa] | 2d immersion in water and 7 days drying [kPa] |
| Capatect Klebe- und | Average | 820 | 452 | 894 |
| Armierungsmasse 186 M | Minimal value | 790 | 410 | 870 |
| Capatect Klebe- und | Average | 1020 | 590 | 1110 |
| Spachtelmasse 190 | Minimal value | 930 | 540 | 1010 |
| Capatect Klebe- und | Average | 658 | 465 | 704 |
| Armierungsmasse 133 Leicht | Minimal value | 586 | 419 | 677 |
| Constant Dämmldahar 195 | Average | 1852 | 1735 | 1771 |
| Capatect Dämmkleber 185 | Minimal value | 1350 | 1620 | 1595 |
| Constant ArmoDone 700 | Average | 980 | 730 | 1090 |
| Capatect ArmaReno 700 | Minimal value | 860 | 630 | 950 |
| Capatect ZF Spachtel 699 | Average | 1025 | 649 | 519 |
| | Minimal value | 990 | 553 | 411 |
| Capatect Klebemasse 190 | Average | 1800 | 1000 | 2700 |
| S | Minimal value | 1650 | 730 | 2250 |
| Capatect Klebe- und | Average | 535 | 367 | 629 |
| Armierungsmasse 131 SL | Minimal value | 496 | 328 | 435 |



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| | | | Conditoning | | |
|--|---------------|---------------------------|---|--|--|
| Substrate: concrete | | Initial state [kPa] | 2 d immersion in water and 2 hrs. drying [kPa] | 2d immersion in water and 7 days drying [kPa] | |
| Capatect Klebe- und Armierungsmasse 186 M SPRINTER | Average | 920 | 420 | 550 | |
| | Minimal value | 800 | 330 | 490 | |
| | Average | 678 | 310 | 671 | |
| Capatect X-TRA 300 | Minimal value | 532 | 283 | 653 | |

4.3 Bond strength between adhesive insulation product (EPS)

| | | Conditioning | | |
|-----------------------------------|---------------|--|-----|--|
| | | statewater and 2 hrs.water and 7 days[kPa]dryingdrying | | 2d immersion in water and 7 days drying [kPa] |
| Capatect Klebe- und | Average | 93 | 83 | 94 |
| Armierungsmasse 186 M | Minimal value | 89 | 79 | 91 |
| Capatect Klebe- und | Average | 110 | 90 | 110 |
| Spachtelmasse 190 | Minimal value | 90 | 87 | 97 |
| Capatect Klebe- und | Average | 150 | 99 | 127 |
| Armierungsmasse 133 Leicht | Minimal value | 135 | 85 | 117 |
| Capatect | Average | 121 | 111 | 123 |
| Dämmkleber 185 | Minimal value | 110 | 101 | 112 |
| Capatect ArmaReno | Average | 110 | 70 | 120 |
| 700 | Minimal value | 100 | 60 | 90 |
| Capatect ZF Spachtel | Average | 125 | 133 | 110 |
| 699 | Minimal value | 117 | 109 | 95 |
| Capatect | Average | 120 | 100 | 100 |
| Klebemasse 190 S | Minimal value | 110 | 90 | 80 |
| Capatect Klebe- und | Average | 145 | 136 | 161 |
| Armierungsmasse 131 SL | Minimal value | 115 | 89 | 137 |
| Capatect Klebe- und | Average | 110 | 100 | 110 |
| Armierungsmasse 186 M SPRINTER | Minimal value | 110 | 90 | 100 |
| Capatect X-TRA 300 | Average | 120 | 78 | 100 |
| | Minimal value | 96 | 66 | 92 |



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4.4 Wind load resistance

The following failure loads only apply to the listed combination of component characteristics and the characteristics of the insulation product.

4.4.1 Wind load resistance of ETICS mechanically fixed with profiles

| | Dimensions | 500 mm x 500 mm | |
|---|---|---------------------------------|--|
| Characteristics of the | Thickness | ≥ 60 mm | |
| EPS (Standard-EPS) | Tensile strength perpendicular to the faces | ≥ 150 kPa | |
| | Shear modulus | ≥ 1.0 N/mm² | |
| Failure load [kN / panel] (Static Foam Block Test) | Horizontal profiles fixed every 30 cm and 49.4 cm long vertical connection profiles | Minimal: 0.95 Average: 0.101 | |

4.4.2 Wind load resistance of ETICS mechanically fixed with dowels

| Apply to all anchors listed in annex 1 mounted on the insulation panels surface | | | | | | |
|---|---|--------------------|----------------------|--------------|----------------------|--------------|
| Characteri | Thickness | ≥ 60 mm | | | | |
| stics of the EPS (standard | Tensile strength perpendicular to faces | ≥ 100 kPa | | | | |
| EPS) | Shear modulus | ≥ 1.0 N/mm² | | | | |
| Plate diameter of anchor | | Ø 60 | mm | Ø 90 r | nm | |
| Failure load | Anchors not placed at the panel joints (Static Foam Block Test) | R _{panel} | Minimal: Average: | 0.51 0.52 | Minimal: Average: | 0.72 0.73 |
| [kN] | Anchors placed at the panel joints (Pull-through Test) | Rjoint | Minimal: Average: | 0.40 0.43 | Minimal: Average: | 0.43 0.47 |



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| Apply to all anchors listed in annex 1 mounted on the insulation panels surface | | | | |
|---|---|--------------------|----------------------|--------------|
| Characteristics of the EPS (elastified | Thickness | | ≥ 60 mm | |
| | Tensile strength perpendicular to the | ≥ 80 kPa | | |
| EPS) | Shear modulus | near modulus | | mm² |
| Plate diameter of anchor plate | | Ø 60 n | nm | |
| Failure laod | Anchors not placed at the panel joints (Static Foam Block Test) | R _{panel} | Minimal: Average: | 0.35 0.36 |
| [kN] | Anchors placed at the panel joints (Pull-through Test) | Rjoint | Minimal: Average: | 0.30 0.31 |

The failure loads specified above for the plate diameter of anchor of 60 mm apply to the following anchors with deep mounting but only on the following conditions of installation:

| Anchor | Thickness of the EPS [t] | Conditions of installation* | |
|---|--|--|--|
| ejotherm STR U, ejotherm STR U 2G (ETA-04/0023) STR Carbon | 100 mm > t ≥ 80 mm (for standard and elastified EPS) | Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) Incision depth: 20 mm | |
| (ETA-13/0009) | ≥ 100 mm (for standard and elastified EPS) | Maximum installation depth of the anchor plate: 15 mm (≙ thickness of insulation cover) Incision depth: 35 mm | |
| TERMOZ 8 SV (ETA-06/0180) | ≥ 80 mm (for standard EPS only) | Maximum installation depth of the anchor plate 15 mm (≙thickness of insulation cover) | |
| Hilti WDVS- screwed in-anchor D 8-FV (ETA-07/0288) | ≥ 100 mm (for standard EPS only) | Minimum Thickness of fixture in the insulation panel: t_{fix} = 80 mm; only setting tools according to ETA-07/0288 are to be used. | |
| * according to the appropriate ETA of anchor | | | |



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4.5 Render strip tensile test

The average value of crack width of the base coats reinforced with the different glass fibre meshes measured at a render strain value of 1 % is:

| Base coat | Glass fibre mesh | Average value of crack width w _{m(1%)} |
|--|---------------------|--|
| Capatect Klebe- und Armierungsmasse 186 M | Capatect Gewebe 650 | 0.06 mm |
| Capatect ArmaReno 700 | Capatect Gewebe 650 | 0.07 mm |
| Capatect Klebe- und Armierungsmasse 133 Leicht | Capatect Gewebe 650 | 0.08 mm |
| Capatect ArmaReno 700 | Capatect Gewebe 666 | 0.07 mm |
| Capatect Klebe- und Armierungsmasse 133 Leicht | Capatect Gewebe 666 | 0.09 mm |
| Capatect Klebe- und Armierungsmasse 186 M SPRINTER | Capatect Gewebe 650 | 0.07 mm |

For all other base coat-mesh combinations no performance was assessed for the render strip tensile test.

4.6 Bond strength after ageing [kPa]

| Finishing coat with base coat indicated hereafter | | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect Klebe- und Armierungsmasse 186 M" | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect ArmaReno 700" | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect Klebe- und Armierungsmasse 133 Leicht" |
|--|------------------|---|---|--|
| Capatect Fassadenputz R, K | Average | 103 | 110 | 110 |
| rassauenputz K, K | Minimal value | 95 | 110 | 103 |
| Capatect AmphiSilan | Average | 115 | 110 | 105 |
| Fassadenputz R, K | Minimal value | 110 | 110 | 103 |
| Capatect- Fassadenputz Fein | Average | 109 | 110 | 109 |
| | Minimal value | 101 | 110 | 105 |
| Capatect Sylitol- Fassadenputz R, K | Average | 127 | 110 | 100 |
| rassauenputz K, K | Minimal value | 119 | 110 | 95 |
| Capatect Mineral- | Average | 140 | 110 | 101 |
| Leichtputz R, K | Minimal value | 138 | 110 | 96 |
| Capatect Feinspachtel 195 | Average | 117 | 110 | 110 |
| reinspachter 195 | Minimal value | 116 | 110 | 103 |



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| Finishing coat with base coat indicated hereafter | | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect Klebe- und Armierungsmasse 186 M" | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect ArmaReno 700" | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect Klebe- und Armierungsmasse 133 Leicht" |
|--|------------------|---|---|--|
| Capatect Modellier- und Spachtelputz 134 | Average | 136 | not applicable in | 113 |
| | Minimal value | 132 | compliance with annex 1 | 105 |
| Meldorfer Flachverblender mit | Average | 120 | 110 | not applicable in |
| Meldorfer Ansatzmörtel | Minimal value | 116 | 110 | compliance with annex 1 |
| Capatect Mineralputz | Average | 99 | 110 | 109 |
| R, K | Minimal value | 92 | 110 | 102 |
| Capatect ThermoSan Fassadenputz NQG | Average | 90 | not applicable in compliance with annex 1 | not applicable in compliance with annex 1 |
| R/K | Minimal value | 80 | | |
| Capatect AmphiSilan Fassadenputz FEIN | Average | 80 | not applicable in | not applicable in |
| | Minimal value | 70 | compliance with annex 1 | compliance with annex 1 |
| Capatect AmphiSilan Fassadenputz K 10 | Average | 80 | not applicable in | not applicable in |
| | Minimal value | 70 | compliance with annex 1 | compliance with annex 1 |
| Capatect Putz 622 W SilaCryl | Average | 90 | not applicable in | not applicable in |
| | Minimal value | 80 | compliance with annex 1 | compliance with annex 1 |
| Capatect ArmaReno 500 | Average | 90 | not applicable in | not applicable in |
| | Minimal value | 80 | compliance with annex 1 | compliance with annex 1 |
| Capatect | Average | not applicable in | not applicable in | 113 |
| Edelkratzputz | Minimal value | compliance with annex 1 | compliance with annex 1 | 105 |



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| Finishing coat with base coat indicated hereafter | | 7 d immersion in water and 7 d drying [kPa] with base coat "Capatect Klebe-und Armierungsmasse 186 M SPRINTER" | |
|---|---------------|--|--|
| Capatect Mineralputz K SPRINTER | Average | 120 | |
| SPRINTER | Minimal value | 110 | |
| Capatect AmphiSilan | Average | 97 | |
| Fassadenputz K SPRINTER | Minimal value | 63* | |
| * < 80 kPa but failure in thermal insulation material | | | |

4.7 Reinforcement (glass fibre mesh)

| Capatect Gewebe 650 | Average warp | Average weft |
|--|-----------------|-----------------|
| Tensile strength in as-delivered state | 44.8 N / mm | 44.8 N / mm |
| Residual tensile strength after aging | 30.6 N / mm | 30.2 N / mm |
| Relative residual tensile strength after aging | 68.3 % | 67.4 % |
| Elongation in as-delivered state | 3.6 % | 3.6 % |
| Elongation after aging | 1.49 % | 1.31 % |

| Capatect Gewebe 666 | Average warp | Average weft |
|--|-----------------|-----------------|
| Tensile strength in as-delivered state | 44.0 N / mm | 62.0 N / mm |
| Residual tensile strength after aging | 30.0 N / mm | 42.0 N / mm |
| Relative residual tensile strength after aging | 68.1 % | 67.7 % |
| Elongation in as-delivered state | 3.8 % | 4.3 % |
| Elongation after aging | 2.5 % | 2.8 % |

| Capatect Panzergewebe 652 | Average warp | Average weft |
|--|-----------------|-----------------|
| Tensile strength in as-delivered state | 64.0 N / mm | 70.0 N / mm |
| Residual tensile strength after aging | 32.0 N / mm | 35.0 N / mm |
| Relative residual tensile strength after aging | 50.0 % | 50.0 % |
| Elongation in as-delivered state | 4.5 % | 4.5 % |
| Elongation after aging | 4.0 % | 4.0 % |



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Annex 5

Energy economy and heat retention (BWR 6)

5 Thermal resistance

The nominal value of the additional thermal resistance R provided by the ETICS to the substrate wall is calculated in accordance with EN ISO 6946:2007 from the nominal value of the insulation product's thermal resistance R_D given accompanied to the CE marking and from the thermal resistance of the rendering system R_{render} which is about 0.02 (m² · K)/W.

 $R = R_D + R_{render}$

The thermal bridges caused by mechanical fixing (anchors, profiles) increases the thermal transmittance U. This influence had to take into account according to EN ISO 6946:2007

 $U_{c} = U + \gamma_{c}$

| cor | rected thermal transmittance [W/ (m² · K)] |
|-------|--|
| nun | nber of anchors per m² |
| liste | al influence of thermal bridge caused by an anchor. The values ad below can be taken into account if not specified in the hor's ETA: |
| | anchors with a galvanized steel screw with the head covered by lastic material |
| | anchors with a stainless steel screw covered by plastic anchors I for anchors with an air gap at the head of the screw |
| | nun loca liste anc .004 W/K for a pl .002 W/K for |

The thermal bridges caused by profiles are negligible.