

Certified ETICS (EWI) system solutions

For prefabricated and
timber frame buildings

www.ceresit.com

Ceresit





Henkel ETICS (EWI) competence

Henkel is a world leading **Adhesives producer** who supplies adhesives, sealants and functional coatings to a broad scope of industries ranging from automotive and electronics OEMs, packaging, consumer goods, food industry and construction. We enable the transformation of entire industries, giving our customers a competitive advantage and offering our customers standard and tailor-made solutions that advance their products.

Henkel offers a range of adhesives solutions for **prefabrication** and **modular housing production** supported by professional customer care.



Ceresit construction adhesives

With the key categories: ceramic adhesives, waterproofing, thermal insulating homes, Ceresit provides a wide range of special products and system solutions to meet the needs of prefabrication industry and construction professionals. Ceresit stands for reliability and professional quality – but also for improving energy efficiency and protecting natural resources.

All the solutions we offer are based on consistent quality and long-time experience. With our key category, thermal insulating homes, Ceresit provides a wide range of special products and system solutions to meet the needs of modern-day on- and off-site house assembly.



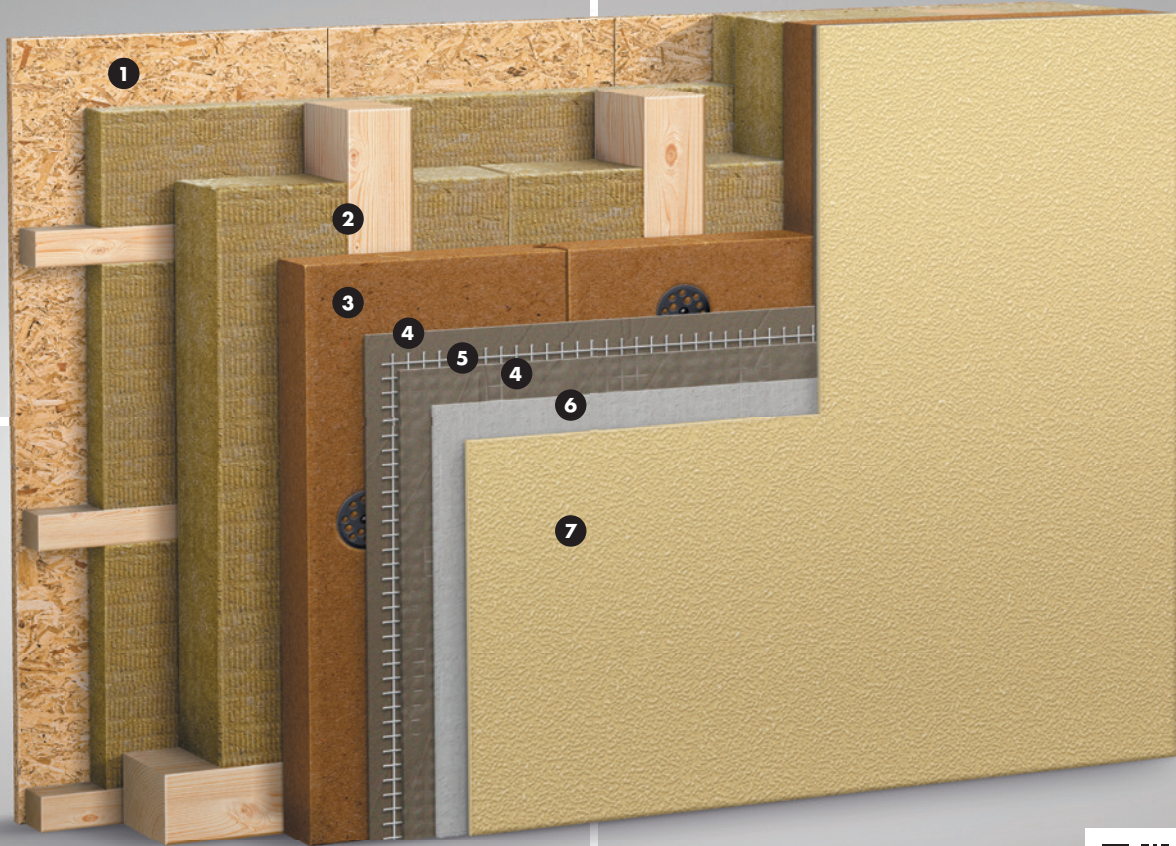
Sustainability focus

To contribute to solving global challenges, Henkel Adhesives aim to make a positive impact on sustainability. Our aim is to drive impact in three main areas: **Climate, Circularity and Safety**. We start with optimizing our own footprint by using sustainable raw materials, while also continuously improving our production and logistics activities.

Building on that, we will offer every customer solution and service that enable emission reduction and circularity. We aim for close and solution oriented co-operation with modular and prefabricated element producers in order to support the move towards more efficient and environment friendly construction.



European technical approval

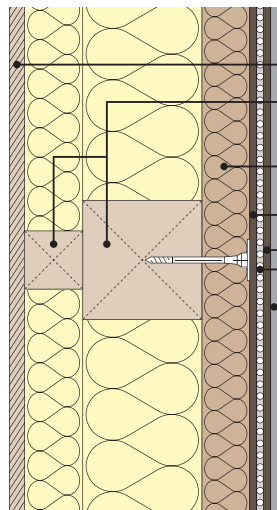


Vapor permeable (breathable) system build up with wood fibre thermal insulation board

The vapor permeable (breathable) system build up is designed so that the entire wall forming the perimeter wall offers the smallest possible diffusion resistance to water vapor and at the same time perfectly protects the entire wall from the effects of wind.

Advantages of the solution:

- Minimum diffusion resistance of the entire formation
- In combination with Ceresit CT 76 plaster, you can use a shade with an HBW of more than 15% over the entire surface

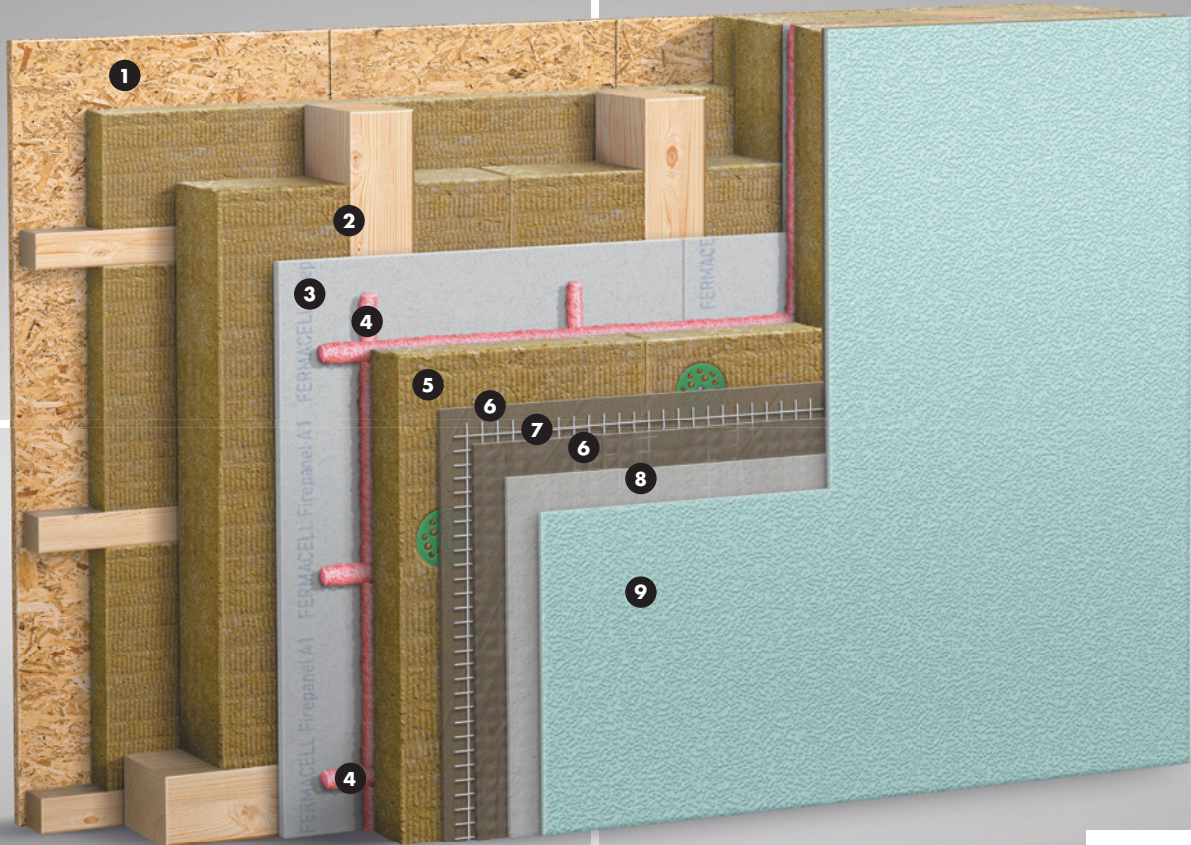


Ceresit system solution:

- 1 Construction board
- 2 Timber frame wall with MW / WF thermal insulation
- 3 Rigid wood fibre thermal insulation board, mechanically anchored
- 4 Mineral basecoat: Ceresit CT 190*
- 5 Glass fibre mesh: Ceresit CT 325**
- 6 Key coat / undercover (optional): Ceresit CT 16
- 7 Finishing render with facade paint (optional): Ceresit CT 137 + CT 49***



* Alternative: mineral basecoat Ceresit CT 80 with appropriate key coat if necessary.
 ** To increase impact resistance use double mesh.
 *** Other mineral, silicate, silicone, and hybrid finishes are possible acc. to ETA.

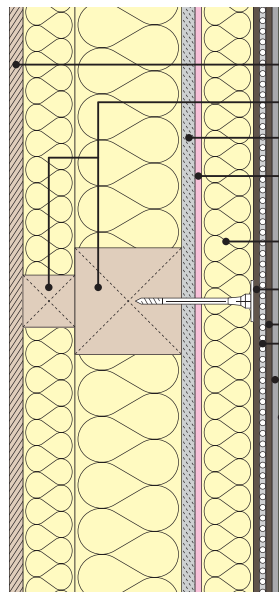


Vapor permeable (breathable) system build up with MW thermal insulation board

The system build up was designed to provide a stable and solid base for the insulation system and at the same time to allow water vapor to freely penetrate the surrounding environment.

Advantages of the solution:

- Firm and stable foundation under ETICS
- In combination with Ceresit CT 76 plaster, you can use a shade with an HBW of more than 15% over the entire surface



Ceresit system solution:

- 1 Construction board
- 2 Timber frame wall with MW thermal insulation
- 3 Rigid construction board Fermacell / Cetris*
- 4 Polyurethane ready to use adhesive: Ceresit CT 84**
- 5 MW insulation boards with additional dowels if necessary
- 6 Mineral basecoat: Ceresit CT 190***
- 7 Glass fibre mesh: Ceresit CT 325****
- 8 Priming paint (key coat): Ceresit CT 15 / CT 16
- 9 Finishing render: Ceresit CT 79*****

* Plywood, cement bonded particleboards, solid wood panels (SWP), particleboards, plasterboards, fibreboard hard and medium, MDF, fireboards, cement fibreboard.

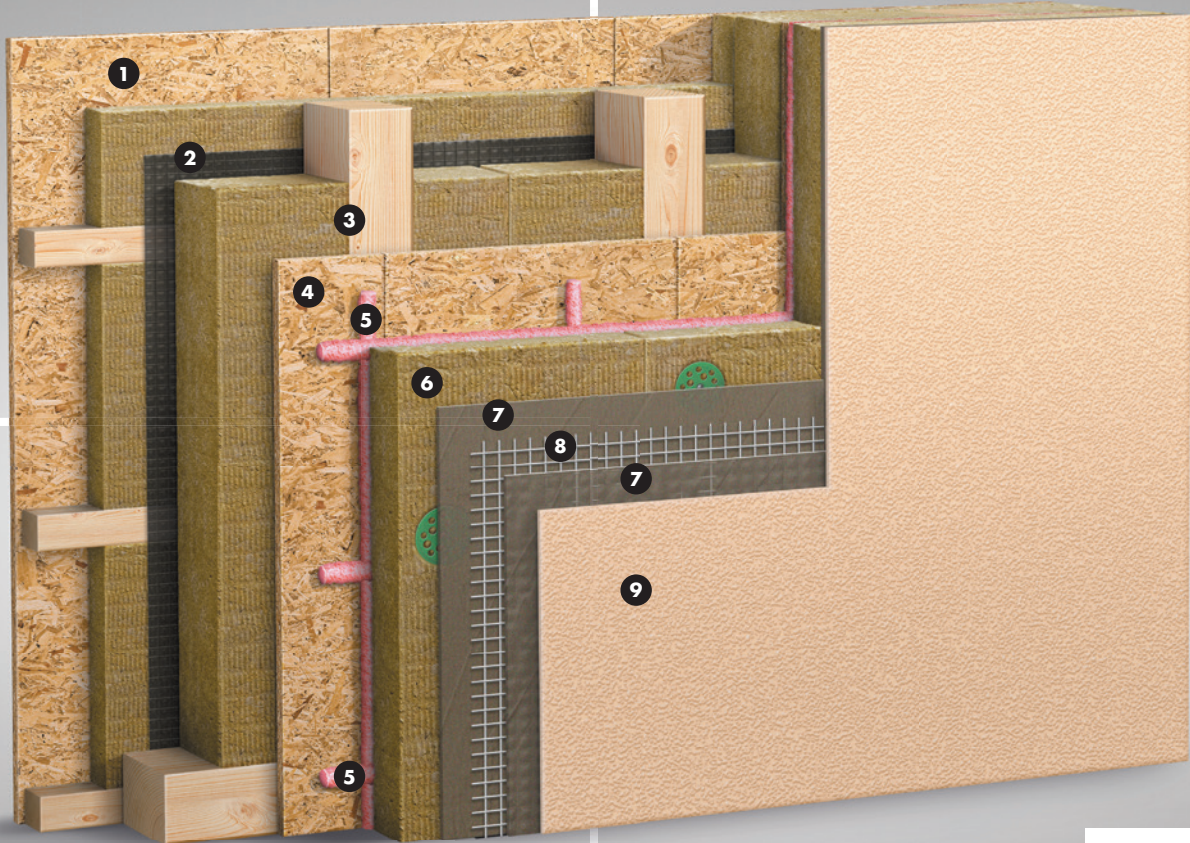
** Alternative: mineral adhesive Ceresit CT 80 or Ceresit CT 180 or Ceresit CT 190 with appropriate substrate preparation and / or primer.

*** Alternative: mineral basecoat Ceresit CT 80 with appropriate key coat if necessary.

**** To increase impact resistance use double mesh.

***** Other mineral, silicate, silicone, and hybrid finishes are possible acc. to ETA.



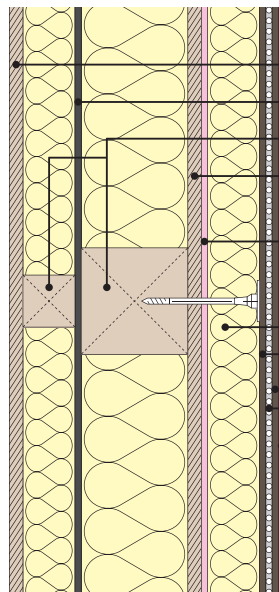


Diffusion closed system build up with vapor barrier membrane and MW thermal insulation board

The system build up was designed considering the requirement of diffusion impermeability of the system build up. Water vapor from the interior does not penetrate the system build up, but the water vapor contained in the thermal insulation, due to the Double Dry effect, escapes through the thin-layer plaster into the environment. Plaster with Double Dry continues to protect the entire formation from the weather!

Advantages of the solution:

- Perfect protection against the weather
- Water vapor from the perimeter structure passes through to the external environment



Ceresit system solution:

- 1 Construction board
- 2 Impermeable air barrier membrane
- 3 Timber frame wall with MW insulation
- 4 Rigid construction board OSB / Fermacell / Cetriss*
- 5 Polyurethane ready to use adhesive: Ceresit CT 84**
- 6 MW insulation boards with additional dowels if necessary
- 7 Mineral basecoat: Ceresit CT 190***
- 8 Glass fibre mesh: Ceresit CT 325****
- 9 Finishing render: Ceresit CT 79*****

* Plywood, cement bonded particleboards, OSB, solid wood panels (SWP), particleboards, plasterboards, fibreboard hard and medium, MDF, fireboards, cement fibreboard, gypsum fibre board.

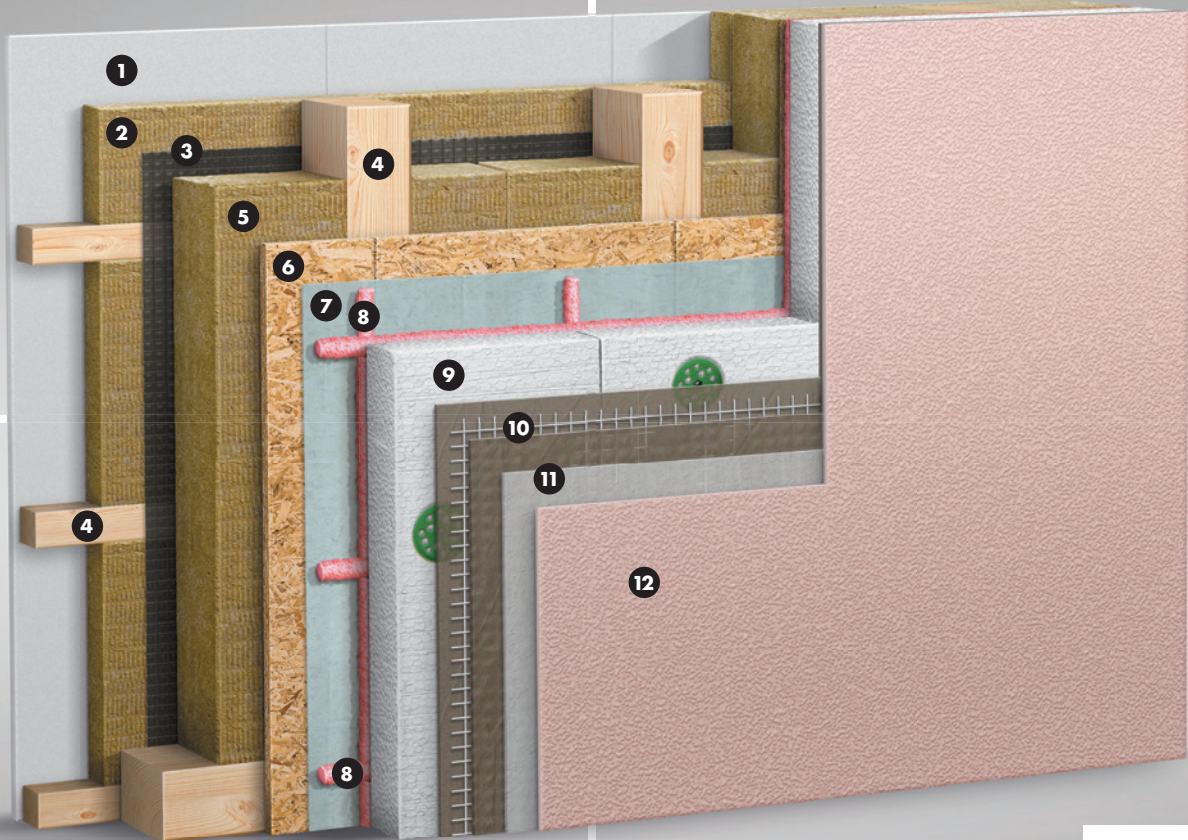
** Alternative: mineral adhesive Ceresit CT 80 or Ceresit CT 180 or Ceresit CT 190 with appropriate substrate preparation and / or primer.

*** Alternative: mineral basecoat Ceresit CT 80 with appropriate key coat if necessary.

**** To increase impact resistance use double mesh.

***** Other mineral, silicate, silicone, and hybrid finishes are possible acc. to ETA.





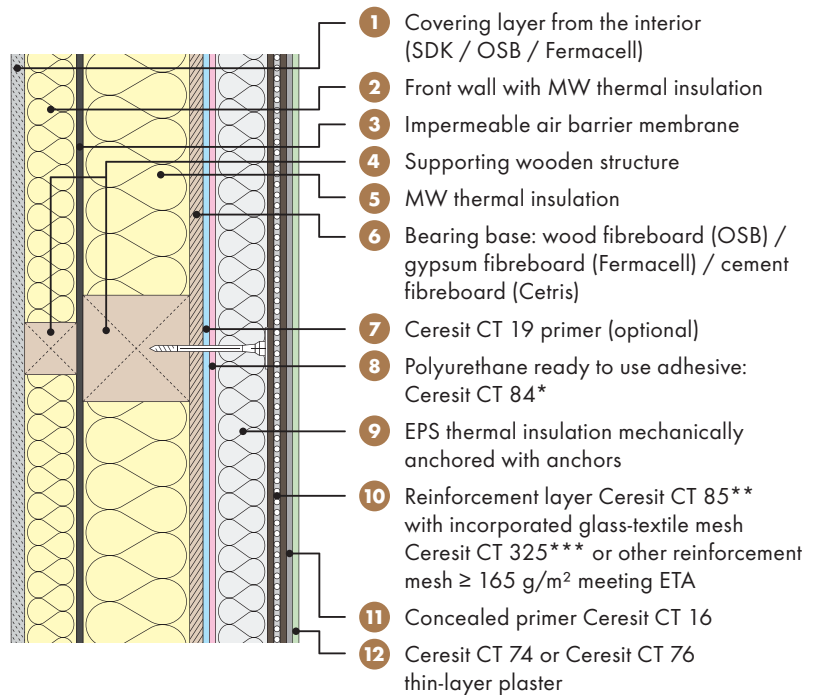
Diffusion closed system build up with EPS insulation boards

The system build up was designed considering the requirement of diffusion impermeability of the system build up. Water vapor from the interior does not penetrate the system build up, but the water vapor contained in the thermal insulation, due to the Double Dry effect, escapes through the thin-layer plaster into the environment. Plaster with Double Dry continues to protect the entire formation from the weather!

Advantages of the solution:

- Perfect protection against the weather
- Water vapor from the perimeter structure passes through to the external environment

Ceresit system solution:



* Alternative: mineral adhesive Ceresit CT 80 or Ceresit CT 180 or Ceresit CT 190 with appropriate substrate preparation and / or primer.

** Alternative: mineral basecoat Ceresit CT 80 with appropriate key coat if necessary.

*** To increase impact resistance use double mesh.





CT 79 IMPACTUM

ELASTOMER PLASTER

packaging: 25 kg plastic container
 storage: 12 months in a dry environment
 Protect from frost! Protect out of direct sunlight!
 color shades: 36 Intense shades and a 516 Colours of Nature® shades
 consumption: 2.3–2.5 kg/m² when ironed structure with a grain size of 1.5 mm

Highly elastic decorative plaster for interior use and exteriors. Recolored pasty mixture. Suitable for very full and dark shades. The plaster is intended for the Ceresit Ceretherm system Impact. It guarantees extreme durability and extreme flexibility and mechanical resistance due to graphite, glass and polyacrylamide fibers

(resists impact with energy up to 100 J, as part of the Impactum system). The plaster is extremely resistant to UV radiation, weather impact and thermal fluctuation. It is self-cleaning, has a low absorbency and high resistance to impurities and microorganisms, it is vapor permeable. It allows use of dark and intense color shades (in combination with trowel and adhesive Ceresit CT 100), and it is ready for immediate use.



CT 76 SOLAR PROTECT

SILICONE-ELASTOMER PLASTER

packaging: 25 kg plastic container
 storage: 18 months in a dry environment
 Protect from frost! Protect out of direct sunlight!
 color shades: 36 Intense shades and a 516 Colours of Nature® shades
 consumption: 2.1–2.5 kg/m² when ironed structure with a grain size of 1.5 mm; 3.1–3.4 kg/m² when ironed structure with a grain size of 2.0 mm

Smooth silicone-elastomer plaster with increased UV resistance to external and internal use. Repainted pasty mixture. The plaster is intended for Ceresit Ceretherm systems. High color stability.

It guarantees high resistance against impact and various weather effects. It has very low absorbency, high vapor permeability, and it is ready for use.



CT 16

PRIMER COATING

packaging: 10 l plastic container
 storage: 12 months in a dry environment.
 Protect from frost! Protect out of direct sunlight!
 consumption: 0.2–0.35 l/m², depending on equality and absorbency of the substrate

Primer for the treatment of the substrate before the application of mineral, acrylic, silicone and silicate-silicone thin-layer plasters.

Facilitates the application of plaster and increases adhesion to the substrate. The coating is waterproof, available in several color shades.



CT 84 EXPRESS PLUS

PU ADHESIVE FOR BONDING EPS/XPS AND MW

packaging: 850 ml can
 storage: 5 months in a dry environment
 Protect from frost!
 consumption: approx. 10 m² penetrated polystyrene / 1 container

Certified PU adhesive is intended for fixing insulation boards from EPS/ XPS in contact heating systems. It is part of the Ceresit system Ceretherm Popular EPS, Classic EPS and Premium EPS. The adhesive is also suitable for fixing thermal insulation boards based on mineral wool.

It is ready for use, allows easy handling and application and also processing even at low temperatures (from 0 °C) and high air humidity. The adhesive is light weight and very good favorability (15% more adhesive force as with classics cement adhesives). It guarantees final strength in approx. 2 hours and low expansion parameters. Offers improved thermal insulation properties and it is easy to process.



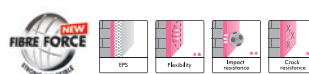
CT 85 FLEX

ADHESIVE AND REINFORCING MORTAR FOR EPS/ XPS

packaging: 25 kg paper bag
 storage: 12 months in a dry environment
 consumption: Fixing of EPS-boards approx. 5.0 kg/m²
 Armoured layer approx. 4.0 kg/m²
 Putty layer approx. 1.0 kg/m

Ceresit CT 85 mortar is designed to warm up external walls of the buildings with the application of a light-wet method and EPS-boards. It is an element of ETICS (External Thermal Insulation Composite Systems) within Ceresit Ceretherm.

CT 85 mortar is used for fixing EPS-boards as well as applying the armoured protection layer to insulate the newly erected objects and also the buildings to be thermo-renovated. CT 85 through the use of a highly targeted combination of special fibres, increases the resistance of insulation system to damage and resistance to the formation of cracks and hairlines.





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