

# CT 180

## MW STRONG FIX

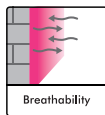
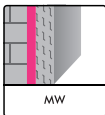
### Adhesive mortar for mineral wool



**For fixing mineral wool boards for thermal insulation of buildings by means of ETICS and for insulating ceilings of garages**

#### CHARACTERISTICS

- ▶ high adhesion to mineral substrates and mineral wool
- ▶ very good workability
- ▶ resistant to weather conditions
- ▶ vapour permeable
- ▶ highly durable
- ▶ possibility of machine application



#### SCOPE OF USE

Ceresit CT 180 mortar is designed to insulate external walls of the buildings by application of external thermal insulation composite system using mineral wool and also ceilings of buildings in garages. It is an element of Ceresit Ceretherm Wool ETICS systems. CT 180 mortar is used for fixing of mineral wool facade boards to insulate the newly erected objects as well as the buildings to be thermo- renovated.

#### SUBSTRATE PREPARATION

CT 180 mortar shows good adhesion to carrying, compact, dry and clean substrates free from substances decreasing adhesion (such as grease, bitumen, dust) of surfaces of walls, plasters and concretes.

The adhesion to the existing plasters and paint coatings should be checked before starting the application. "Hollow" plasters should be removed. Any losses and uneven surfaces should be filled with the filler Ceresit CT 29 or covered with cement plaster. Any surface contaminant and other adhesion impairing substances, steam-tight paint coatings and the coats with low adhesion to the substrate should be completely removed, e.g. washed with water jet. In case of mycological contamination with moss and algae, the surface should be cleaned and, then saturated with a fungicide solution of Ceresit CT 99. The old, not plastered walls, strong plasters and vapour permeable paint coats should be dusted, then washed with water jet and addition of an agent for removing impurities Ceresit CT 98 and left until they go completely dry. Substrates with high water absorption, e.g. walls made of aerated concrete blocks should be primed with Ceresit CT 17 and left for drying for at least 2 hours.



#### APPLICATION

CT 180 should be poured into the measured amount of cool clean water and stirred with the drill by means of a mixer until the homogenous mass is obtained without lumps, wait approx. 5 minutes and mix again.

It is necessary to apply "priming" layer with CT 180 on mineral wool boards forming a layer of 1 mm thick first before proper application of mortar, than on top of "priming", right after ready mixed mortar should be applied with a trowel along the board edges forming a strip of 3÷4 cm wide and a few spots with the diameter of approx. 8 cm. Then immediately, the board should be pressed to the wall with a few slight blows of a long float. The properly applied mortar when pressed should cover minimum 40 % of its surface. In case of even, smooth substrates, before the mortar is applied by means of a toothed long float (teeth 10–12 mm), The boards should be fixed tightly one at the other in one surface with the preservation of "brick like manner" of vertical connection. When CT 180 is set (after approx. 3 days), the boards should be ground with abrasive paper and additionally fixed with mechanical anchors with steel cores. Possibility of machine application. The recommended machine type is e.g.: Wagner PC 15, PC 830 or SPG Baummaschinen PG 20 equipped with gun for an application of an adhesive.

## PLEASE NOTE

Application should be performed in dry conditions with the substrate and ambient temperature from +5 °C to +25 °C. CT 180 powder mortar shows acid properties and the cement content causes alkali reaction when mixed with water. Therefore skin and eyes should be protected. In case of contact with eyes, they should be rinsed with water and the general practitioner should be consulted. The performance characteristics are given in the text of corresponding to the product Declaration of Performance. The content of chromium VI – below 2 ppm till the expiry date.

## OTHER INFORMATION

It is recommended to use mineral wool boards which meet the requirements of external wall insulation system (ETICS) acc. to EN 13162.

Other details that refer to thermal insulation are described in the Instruction ITB No. 418/2007 or 447/2009.

## PACKAGING

Bags of 25 kg.

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.



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## TECHNICAL DATA

Base: cement mixture with mineral fillers and modifiers

Bulk density: about 1.6 kg/dm<sup>3</sup>

Mixing ratio: 4.75 ÷ 5.25 l of water per 25 kg

Temperature of application: from +5 °C to +25 °C

Pot life: approx. 1.5 hours

Compression resistance: ≥ 20 N/mm<sup>2</sup> (CS IV) acc.

EN 1015-11:2001+A1:2007

Adhesion acc. ETAG 004:

to concrete > 0.25 MPa

to mineral wool > 0.08 MPa

Flexural resistance: ≥ 5.5 N/mm<sup>2</sup> acc.

EN 1015-11:2001+A1:2007

Fire classification acc. EN 13501-1:

A1 in:

Ceresit Ceretherm Wool Garage

A2-s1, d0 in:

Ceresit Ceretherm Wool Classic, Ceresit Ceretherm Universal MW

The sound absorption coefficient in the system Ceresit Ceretherm Wool Garage:  $\alpha_w = 0.85$  (L) Class B absorption

Assessment of natural radiation: meets the requirements of ITB Instruction No. 234/2003, p.6.2.1, according to Regulation of the Council of Ministers on 2 January 2007. & 3, p.1

Assumed consumption:

Fixing of the boards: approx. 4.5 kg/m<sup>2</sup>

Priming coat: approx. 1.0 kg/m<sup>2</sup>

Shelf life/ Storage: Up to 12 months since the production date when stored on pallets in dry cool conditions and in original undamaged packages.

This product possesses documents of reference:

- BBA Certificate No. 14/5142

- Irish Agreement Board Certificate No. 09/0340

- European Technical Assessment (ETA) in systems:

Ceresit Ceretherm System	Wool Classic	Universal MW
ETA	09/0026	14/0127
Certificate	1488-CPR-0440/Z	1488-CPR-0362/Z
DoP	00424	00435

- National Technical Assessment in systems:

Ceresit Ceretherm System	Wool Garage
TA	15-7956/2016 + Annexes
Certificate	ITB-0320/Z
NDoC	00448