

CT 190



Adhesive and Reinforcing mortar for Mineral Wool

For fixing Mineral Wool boards as well as for applying a thin armoured layer for thermal insulation of buildings by means of ETICS

CHARACTERISTICS

- ▶ high resistance to mechanical damages
- ▶ high adhesion to mineral substrates and wool
- ▶ resistant to scratches and cracks
- ▶ strengthened with fibres
- ▶ resistant to weather conditions
- ▶ flexible
- ▶ vapour permeable
- ▶ possibility for machine application*

SCOPE OF USE

Ceresit CT 190 mortar is designed to warm up external walls of the buildings by application of external thermal insulation composite system using mineral wool façade boards as well as lamella. It is an element within Ceresit Ceretherm Wool insulation system (ETICS). CT 190 mortar is used for fixing of mineral wool façade boards and for applying the reinforcing protection layer to insulate the newly constructed objects as well as older buildings to be thermo-renovated.

SURFACE PREPARATION

1. Fixing mineral wool boards

CT 190 mortar has 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 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 with steel brushes 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 left until they go completely dry.



CT 190

Substrates with high water absorption, e.g. walls made of aerated concrete blocks or silicate blocks should be primed with Ceresit CT 17 and left for drying for at least 2 hours.

2. Armoured layer application

The surface of the boards which are additionally fixed with mechanical anchors should be thoroughly cleaned by means of a brush with loose wool fibres.

APPLICATION

CT 190 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.

1. Fixing mineral wool boards

Before of application of adhesive mortar it is necessary to apply CT 190 mortar. The ready 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 usage of mineral wool the mortar should be applied by means of notched trowel (notched: 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 190 is set (after approx. 3 days), the boards should be ground with abrasive paper and additionally fixed with mechanical anchors with steel cores.

2. Armoured layer application

The ready mortar of 2 ÷ 3 mm – thick layer should be spread along the surface of the boards by means of a smooth long steel float. The glass fibre mesh should be applied on the fresh mortar (with 10-cm overlaps), and then the second 1-2 mm thick layer should be applied and smoothed evenly so that the glass fibre mesh should not be visible.

Fresh stains should be cleaned with water while hardened elements should be mechanically removed only.

PLEASE NOTE

The armoured layer should not be applied on highly insolated surfaces and the applied layer should be protected against rain. It is recommended to use scaffolding protection. Application should be performed in dry conditions with the substrate and ambient temperature from +5°C to +25°C. All the data refer to the temperature of +20°C and relative air humidity of 60%. Faster or slower setting of this mortar may occur in different conditions. CT 190 powder mortar shows acrid 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 content of chromium VI – below 2 ppm till the expiry date.

OTHER INFORMATION

It is recommended to insulate the buildings with the use of mineral wool boards by means of a light wet method. Other details that refer to thermal insulation are described in the Instruction ITB No. 418/2007 and 447/2009.

This technical data sheet determines the scope of application of the material and the way of conducting the work, however, it cannot replace the professional preparation of the contractor. Apart from the data provided, the application should be done in compliance with the construction and industrial safety regulations. The manufacturer guarantees the quality of the product, however, he does not have any influence on the condition and the way of application. In case of any doubts, individual application trials should be conducted. The previously issued technical data sheets become invalid with the issue of this technical data sheet.

STORAGE

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

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the respective standards. 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 +20 °C and 60 % 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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PACKAGING

Bags of 25 kg.

TECHNICAL DATA

Base:	cement mixture with mineral fillers and modifiers
Bulk density:	approx. 1.3 kg/dm ³
Mixing ratio:	6.5 ÷ 7.0 l of water per 25 kg
Temperature of application:	from +5°C to +25°C
Pot life:	approx. 1.5 hours
Adhesion:	
to concrete	>0.6 MPa
to mineral wool	>0.05 MPa (rent in mineral wool layer)

The sound absorption coefficient in the system Ceresit Ceretherm Wool Garage:
 $\alpha_w = 0.55$ (LM) Class D absorption

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

Assumed consumption:	
Fixing boards:	approx. 5.0 kg/m ²
Armoured layer:	approx. 5.0 kg/m ²

This product possesses:

- European ETA technical approval in the system:

Ceresit Ceretherm Wool System	Classic	Classic (R)	Premium
ETA	09/0026	09/0360	09/0037
Certificate	1488-CPD-0127/W	1488-CPD-0128/W	1488-CPD-0126/W
DoC.: Ceresit Ceretherm Wool	WE-CC W Classic 3/PL 02.07.2012	WE-CC Classic 2/RO 15.02.2012	WE-CC W Premium 2/PL 15.02.2012

- Technical approvals in systems:

Ceresit Ceretherm System	Wool Classic	Wool Premium	Wool Garage
TA	15-3717/2008	15-7099/2008	15-7956/2009 +Annex No. 1
Certificate	ITB-0110/Z	ITB-0159/Z	ITB-0320/Z
DoC: Ceresit Ceretherm	Wool Classic /1/09/ 02.02.2009	Wool Premium /1/09/ 02.02.2009	Wool Garage /1/09/ 26.03.2009