

CT 100

IMPACTUM

One-component, flexible dispersion reinforcing compound for Expanded Polystyrene

For making a reinforced layer with glass fibre mesh on Expanded Polystyrene boards (EPS), with ETICS building insulation



CHARACTERISTICS

- ▶ highly flexible
- ▶ fibre-reinforced with carbon, glass and polyacrylamid fibres combination
- ▶ resistant to extreme mechanical loads and thermal stresses
- ▶ resistant to climatic conditions
- ▶ highly hydrophobic
- ▶ cracks bridging up to 2 mm
- ▶ does not require the use of a primer before plaster application
- ▶ possibility of tinting in mass
- ▶ possibility of machine application
- ▶ excellent working parameters
- ▶ high performance



SCOPE OF USE

Ceresit CT 100 mortar is a ready to use compound for making a reinforced layer while insulating the external walls of buildings with the use of EPS. It is a compound of Ceresit Ceretherm Impactum, external thermal insulation composite system for walls of buildings (ETICS). It can also be used for fixing damaged or cracked existing insulation systems.

CT 100 compound is used for applying highly flexible and impact resistant protective reinforced layer while insulating newly constructed buildings and buildings for which thermal efficiency is being improved. It's mostly recommended on facades exposed to damage – entrance to the buildings, parking zones, pedestals, etc. CT 100 is additionally fibre-reinforced, which increases its impact resistance (as a part of the Impactum system with Ceresit CT 79 and meshes combinations Ceresit CT 325 and CT 327, it reaches resistance of more than 100 J) and eliminates scores and cracks. The use of CT 100 allows elimination of the process of priming with priming paint before application of Ceresit plasters. There is a possibility of tinting the compound with Ceresit pigments. Owing to the unique formulation, the mortar has a more malleable, light and homogeneous consistency. It is easier to mix, apply and spread, which translates into working comfort and decrease of its consumption in relation to cement-base mortars.



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It can be used for application of a putty layer on XPS and EPS boards.

SUBSTRATE PREPARATION

Before starting work on the reinforced layer, the mortars for gluing the polystyrene foam boards have to be bound (in accordance with data sheets of the products used as adhesive mortars). Before application of the reinforced layer, irregularities on the boards should be polished with sandpaper, thoroughly cleaned of the loose remains of the insulation material and the mounting should be performed with appropriate mechanical couplers (in accordance with project documentation).

APPLICATION

Application of the mesh reinforced layer.

CT 100 compound is ready to use. Before starting work, it should be mixed until homogeneous consistency is achieved. If necessary, 1% of water can be added to achieve the necessary consistency. Mixed mortar should be spread evenly on the surface of the boards with the use of a notched trowel, with 6÷8 mm notches. The fibre glass mesh is immediately spread on the prepared layer

and embedded with the use of a metal spreader and smoothed down. While doing this, a reserve of a min. 10 cm of the adjacent strips of mesh should be maintained. 24 hours after the application the subsequent compound blinding layer, about 1 mm thick, can be applied in order to balance and smooth down the surface. Correctly embedded fibre glass mesh should be invisible. In case of application of the compound with the use of double layer of the fibre glass mesh or a combination of a regular and panzer reinforced mesh, embedding of the subsequent meshes should be performed with the wet on wet method with an appropriate increase of the thickness of the compound layer. When combining meshes, in order to achieve better parameters of the system, the panzer reinforced mesh should be embedded first. Ceresit CT 100 compound can be applied by machine. The recommended machine type is e.g.: Wagner PC 15, PC 830 nozzle size \varnothing 6 mm.

PLEASE NOTE

Use of scaffolding protection is highly recommended. The reinforced layer should not be applied on walls exposed to sun and the applied layer should be protected from direct sun, rain and strong wind until it is dry. Works should be carried out in dry conditions, with the air and ground temperature from +10 °C to +25 °C and air humidity below 80 %. Subsequent work stages after application of the reinforced layer should not be commenced earlier than after 24÷48 hours from finishing of the Ceresit CT 100 compound application. In case of a contact of the material with eyes, they should be washed with water and a doctor should be consulted.

OTHER INFORMATION

It is recommended to use white or graphite EPS boards which meet the requirements of external wall insulation systems (ETICS)

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.

according to EN 13163. The requirements that refer to thermal insulation are described in the Instruction ITB nr 418/2007 and 447/2009.

PACKAGING

Plastic containers of 25 kg.

TECHNICAL DATA

Base:	elastomeric dispersion, selected base of polymer adhesives, fillers and inorganic and organic additives, fibre-reinforced
Density:	about 1.4 kg/dm ³
Temperature of application:	from +10 °C to +25 °C
Skimming time:	about 20 min.
Water absorption after 24 h:	< 0.5 kg/m ² acc. ETAG 004
Adhesion acc. ETAG 004:	to EPS boards > 0.08 MPa
Lateral deformation:	≥ 42 mm* acc. EN 12002:2010 *no sample destruction

Fire classification acc. EN 13501-1:

B-s2, d0 in:

Ceresit Ceretherm Impactum

Approximate consumption:

reinforced layer on polystyrene foam with single mesh	about 2.5÷3.0 kg/m ²
reinforced layer on polystyrene foam with double mesh	about 3.0÷3.5 kg/m ²
reinforced layer on polystyrene foam with reinforced and regular mesh	about 3.0÷3.5 kg/m ²
blinding layer	about 1.0 kg/m ²

Colour: cream white

Shelf life/ Storage: Up to 12 months from the production date, if stored on pallets, in dry conditions, in original and undamaged packages.

Protect against frost! Protect against direct sunlight!

This product possesses documents of reference:

- European Technical Assessment (ETA) in systems:

Ceresit Ceretherm System	Impactum
ETA	13/0086
Certificate	1488-CPR-0407/Z
DoP	00436

- National Technical Assessment in systems:

Ceresit Ceretherm System	Reno
NTA	ITB-KOT-2018/0472 wydanie 1
Certificate	020-UWB-0895/Z
NDoC	00444