

CT 100 IMPACTUM

One-component, flexible dispersion adhesive and reinforcing compound for Expanded Polystyrene

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

CHARACTERISTICS

- ▶ highly flexible
- ▶ fibre-reinforced
- ▶ resistant to extreme mechanical loads and thermal stresses
- ▶ joins cracks
- ▶ resistant to climatic conditions
- ▶ highly hydrophobic
- ▶ does not require the use of a primer before plaster application
- ▶ possibility of adhesion on difficult surfaces
- ▶ possibility of tinning in mass
- ▶ possibility of machine application
- ▶ excellent working parameters

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 component of Ceresit Ceretherm Impactum, a complex insulation system (ETICS) for external walls of buildings. 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. CT 100 is additionally fibre-reinforced, which increases its impact resistance (as a part of the system, it reaches resistance of more than 100 J) and eliminates scores and cracks. The use of CT 100 allows for 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 a working comfort and decrease of its consumption in relation to cement-base mortars.

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

It can also be used for gluing of insulation boards on unusual surfaces, such as: steel, glass or ceramics. In case of fixing to



CT 100

OSB or plywood, it is necessary to prime the surface beforehand with Ceresit CT 16 or Ceresit CN 94 and to install an additional mechanical mounting.

SURFACE 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 co uplers.

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 neces-

sary 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 about 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 and completely embed the mesh in the compound layer. Correctly embedded fibre glass mesh should be invisible and completely embedded in the adhesive mortar.

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 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 putty layer. In the case of a combination of meshes, in order to achieve better parameters of the system, the panzer reinforced mesh should be embedded first.

CT 100 compound can be applied by machine. The recommended machine type is e.g.: Wagner PC 15, nozzle size Ø 6 mm.

PLEASE NOTE

The reinforced layer should be applied on walls exposed to sun and the applied layer should be protected from the rain until it is dry. The use of protections on the scaffolding is highly recommended.

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%. All the data refer to temperature +20°C and relative air humidity of 60%. In different conditions the material parameters can alter.

Subsequent work stages after application of the reinforced layer should not be commenced earlier than after 24÷48 hours from finishing of the 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.

The information or data placed here refer to standard uses and cannot be a base for damage claims.

RECOMMENDATIONS

This data sheet defines the scope of use for the material and the recommended way of conducting works, however it cannot replace professional experience of a contractor. Other than these recommendations, the works should be carried out in accordance with construction standards and the rules of occupational safety and health.

The manufacturer guarantees the quality of the product; however he has no influence on the conditions and the method of its use. In case of any doubt, sample procedure should be carried out.

With publication of this data sheet, any previous sheets become invalid.

STORAGE

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

PACKAGING

Plastic 25 kg bucket.

TECHNICAL DATA

The base:	elastomeric dispersion, selected base of polymer adhesives, fillers and inorganic and organic additives, fibre-reinforced
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Density:	about 1.4 kg/dm ³
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Application temperature:	from +10°C to +25°C
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Skinning time:	about 20 min.
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Fire classification:	B-s2,d0
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Approximate consumption:

- reinforced layer on polystyrene foam with single mesh about 2.5-3.0 kg/m²
- reinforced layer on polystyrene foam with double mesh about 3.0-3.5 kg/m²
- reinforced layer on polystyrene foam with reinforced and regular mesh about 3.0-3.5 kg/m²
- blinding layer about 1.0 kg/m²

Colour:	cream white
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The product has the following reference documents:

- European Technical Approval ETA 13/0086 issued by Instytut Techniki Budowlanej in the system Ceresit Ceretherm Impactum

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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