

# CT 84

## Express

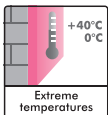
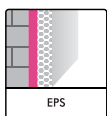
## Express PU adhesive for EPS-boards



**One-component, low-pressure polyurethane adhesive for fixing Expanded Polystyrene boards in ETICS and various types of insulation panels**

### CHARACTERISTICS

- ▶ **Yield:** 10 m<sup>2</sup> - 100 % higher than traditional cement adhesives
- ▶ **15 % higher adhesive strength** than traditional cement adhesives
- ▶ **Low expansion**
- ▶ **Anchoring after aprox. 2 h** – speeding up thermal insulation work; in case of application of CT 84 and Ceresit Ceretherm systems, insulation works can take even 5 days less
- ▶ **Application from 0°C and high humidity of air** especially recommended for work in low temperature when cement adhesives drying time is significantly longer
- ▶ **Perfect for "ETICS on ETICS" application**  
– fixing of 1 m<sup>2</sup> of eps boards with CT 84 weights 100 g vs 5 kg in case of cement adhesive
- ▶ **Enhanced thermal insulation properties** – CT 84, unlike traditional cement adhesives, has thermal insulation properties similar to foamed polystyrene or mineral wool
- ▶ **High homogeneity** of adhesive thanks to metal ball to protecting against too large air bubbles



### SCOPE OF USE

Ceresit CT 84 is a polyurethane adhesive used for fixing Expanded Polystyrene boards in Ceresit Ceretherm Systems for thermal insulation of external building walls (ETICS). CT 84 can be used for fixing foamed polystyrene boards in providing thermal insulation for newly erected buildings and those subjected to renovation of thermal insulation. Approximately 2 hours after the application, the EPS boards may be smoothed and anchored, then the reinforced layer may be applied using the Ceresit CT 85, CT 87 or ZU.



CT 84 polyurethane adhesive is also used for fixing such material as EPS and XPS foamed polystyrene on such substrates as wood, OSB board, glass, bitumen, ceramic bricks, concrete, coated and galvanized steel, aerated concrete dry and after water impact, drywall and for layered fixing of expanded polystyrene in normal and reduced temperatures in thermal insulation systems also.

It is also used for bonding EPS boards, windowsills (after degreasing the surface), filling the gaps between the EPS boards, framework (supplement of the adhesive) in case of key button effect of EPS boards in existing insulation system and bonding of EPS boards in case of renovation of the existing insulation system "ETICS on ETICS".

### SUBSTRATE PREPARATION

Ceresit CT 84 features very good adherence to compact, carrying substrates, such as wall, plaster and cement substrates free from grease, bitumen, dust and other substances decreasing adhesion. In case of low temperatures, the substrates to which CT 84 will be applied, should be covered with neither frost, ice or snow. The adhesion of existing plasters and paint coatings should be

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checked. "Hollow" plasters should be removed. 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. by means washing devices operating under pressure. Moss and algae should be removed with steel brushes and the entire surface should be saturated with Ceresit CT 99 fungicide solution in accordance with the technical instructions. The old, not plastered walls, strong plasters and paint coats should be dusted, then washed with water jet and left until they go completely dry. Adhesion of CT 84 to the prepared substrate is checked by gluing 10 x 10 cm blocks of EPS-boards in a few places and pulling off manually after 2-4 hours. The load carrying ability of the substrate is sufficient only when the EPS-boards are subject to rent.

## APPLICATION

### In Ceresit Ceretherm composite insulation system.

The container should be intensively shaken for several seconds, then the valve protection cap should be removed and the container with the valve kept upwards should be attached to the gun (straw). Please note! The valve of the gun should be twisted off. With the gun attached to the container, it is possible to open the valve and release the adhesive by pressing the trigger. Starting profiles should be fixed before the application of EPS-boards. CT 84 should be applied with the gun and the container kept in an upright position and the distance kept between the gun and the board allowing the adhesive application. In case of applying CT 84 in Ceresit Ceretherm Systems, it should be applied along the periphery of the board with the distance kept approximately 2 cm from the edges and one strip running along the board parallel to its longer sides. In case of fixing CT 84 on foundation should be plied 5 strips along shorter side of the board, keep the distance c.a. 2cm from the edge. 2-4 minutes after CT 84 place the board to the wall and press it slightly with a long float. The surface smoothness of the fixed boards can be corrected up to 20 minutes since their fixing by means of a long float. High humidity can cause faster bonding of CT 84.

- In case of the application during the unfavourable weather conditions, e.g. during strong winds or rain, the scaffolding protection should be absolutely used. Special attention should be paid to the protection of the building corners when the application is done during strong winds.
- Fresh adhesive stains should be removed by means of CERESIT PU CLEANER or acetone, and any hardened layer of adhesive should be mechanically removed only.
- When the container is removed from the gun, the gun should be cleaned with CERESIT PU CLEANER.

### In the case of key button effect of EPS-boards.

- In the case of 'hollow' sound during cleaning of elevation, topical taped insulation boards should be done through the puncture point in elevation and heat-insulation layer and injecting the adhesive CT 84.

### In Ceresit Ceretherm Reno system as "ETICS on ETICS"

- After cleaning the surface by mean of Ceresit CT 98 (the concentrate for cleaning the dirt) the EPS-boards should be fixed to existing insulation according to standard external thermal insulation system of Ceresit Ceretherm.

## PLEASE NOTE

CT 84 contains substances harmful to health. Protective glasses and gloves should be worn. It is not permitted to eat or smoke while working; do not work close to the open fire. In case of any health problem, the general practitioner should be consulted. The container holds compressed flammable gas, therefore it should be protected against heat sources above the temperature of +50 °C. The container should not be perforated or thrown into the fire. The container with adhesive should always be transported in the boot - never in the passenger's cabin. Keep out of reach of children. The performance characteristics are given in the text of corresponding to the product Declaration of Performance.

## OTHER INFORMATION

It is recommended to use white or graphite EPS boards which meet the requirements of external wall insulation systems (ETICS) according to EN 13163.

Details of the insulation works are described in ITB Instruction No. 418/2007 and 447/2009.

## PACKAGING

Metal container of 850 ml.

## PACKAGING

Temperature of application:	from +0 °C to +40 °C
Air humidity:	even above 90%
Surface drying time:	approx. 10 min.
Hardening time:	approx. 2 hours
Thermal conductivity ratio	$\lambda - 0.040 \text{ W/mk}$

Adhesion:	
to concrete	$\geq 0.08 \text{ MPa}$
to EPS-boards	$\geq 0.08 \text{ MPa}$ (tear in EPS layer)
to ceramic bricks	$\geq 0.08 \text{ MPa}$
to aerated concrete	$\geq 0.08 \text{ MPa}$
to OSB board	$\geq 0.08 \text{ MPa}$
to steel	
- coated	$\geq 0.08 \text{ MPa}$
- galvanized	$\geq 0.08 \text{ MPa}$
to XPS	$\geq 0.08 \text{ MPa}$
to bitumen coat	$\geq 0.08 \text{ MPa}$
to wood	$\geq 0.08 \text{ MPa}$

Fire classification acc. EN 13501-1:

B-s1,d0 in:

Ceresit Ceretherm Popular, Ceresit Ceretherm Classic
Ceresit Ceretherm Premium

Assumed consumption:

- in ETICS systems	approx. 10 m <sup>2</sup>
- on foundation insulation	approx. 14 m <sup>2</sup>

Shelf life/ Storage: Ceresit CT 84 should be stored and transported vertically, in cool and dry conditions and in the temperature above 0 °C. The expiry date: up to 15 months since the production date placed on the bottom of the container.

This product possesses documents of reference:

- BBA Certificate No. 14/5142
- Irish Agreement Board Certificate No. 09/0340

- European Technical Approval (ETA) in systems:

Ceresit Ceretherm System	Popular	Classic	Premium
ETA	08/0309	09/0014	08/0308
Certificate	1488-CPR-0382/Z	1488-CPR-0439/Z	1488-CPR-0363/Z
DoP	00426	00420	00428

- Technical Approvals in Systems:

Ceresit Ceretherm System	Reno
TA	15-8077 /2009 + Annexes
Certificate	ITB-0701/Z
DoC	00444

Technical Approval No. AT-15-8372/2015 + Annexes issued by Building Research Institute (ITB) and National Declaration of Conformity No. 00556 of 29.08.2016.

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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