EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS

CERMITHERM CT 600

Cement based base coat render for insulation boards

- *Used as basecoat render on thermal insulation boards (CT ROCKWOOL, CT EPS, CT LAMPDOPOR and CT XPS) on external facade.*
- *High flexibility and resistance to frost, moisture and thermal shocks.*
- *Easy and quick application with high performance.*
- *Grey coloured.*
- *Available in 25 kg craft bags.*

DESCRIPTION

• Cement based easy to use base coat render which is applied on all kinds of thermal insulation boards (**CT ROCKWOOL**, **CT EPS**, **CT LAMPDOPOR** and **CT XPS**) onto external facades. It has easy and crackles application with high performance, and resistant to thermal shocks and moisture.

REFERANCE STANDARD

• TS EN 13499

APPLICATION SURFACES

• Suitable for use on all kinds of thermal insulation boards (**CT ROCKWOOL**, **CT EPS**, **CT LAMPDOPOR** and **CT XPS**). For application on alternative surfaces please refer to the Special Conditions section.

TECHNICAL FEATURES

Material Content	High quality cement, additives providing flexibility and improved adhesion.
Colour	Grey
Density	1,3 gr/cm³
Shell life	When stored unopened in a cool, dry place, shell life is 1 year from manufacturing date.

TECHNICAL PERFORMANCE*

Tensile strength on insulation boards under normal conditions (EN 13494)	≥ 0,08 (Nt/mm²)

APPLICATION CONDITIONS

Application thickness	Min 3-4 mm
Application temperature of the surface	(+5°C) - (+35°C)
Service temperature	(-20°C) - (+80°C)
Rest time	5 minutes
Open time	30 minutes
Pot life	2 hours
Final set time	28 days
Mixture Density	~1,70 kg/liter

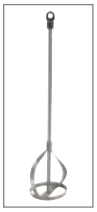
* The performance values at listed above measured at +23 °C, 50% relative humidity.

SURFACE PREPARATION of THE INSULATION BOARD

• The thermal insulation board should be well fixed to the substrate and should be smooth and stable
• Rendering should be started 24 hours after fixing the thermal insulation board.
• The gaps between the thermal insulation boards (due to irregularity of squareness of board dimensions) which have not been well-fixed should be filled with the same thermal insulation material or polyurethane foam.

MIXING

• Gradually add 6,00 - 6,50 liter (24%-26%) of clean water to 25 kg of **CERMITHERM CT 600**, and mix to a smooth and homogenous paste. It is recommended to use a low cycled (350 cycle/min.) electrical drill-mixer for mixing.
• The paste should be in a consistence such that it does not flow when handled with a trowel.
• The paste should rest for 5 minutes prior to application and should be applied after remixing.



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APPLICATION

• **CERMITHERM CT 600** base coat render is applied over thermal insulation boards with a steel trowel.
• Reinforcement mesh is embedded into the first layer of **CERMITHERM CT 600** by using a steel trowel.
• In order to avoid cracks, reinforcement mesh is applied with approximately 10 cm overlaps on each other.
• The reinforcement mesh should be turned with minimum 15-20 cm overlaps on each corners, door and window edges and on critical details. 20x60 cm sized reinforcement mesh parts should be placed diagonally at corners of doors, windows, and spaces.
• Second layer of plaster is applied 3 to 5 hours later. The thickness of final application should be minimum 3-4 mm for two layers.
• Top coat should be applied after **CERMITHERM CT 600** completely dries (min. 7 days).
• Consult the technical service for more details.

PRECAUTIONS

• Do not add water into the mixture once the mix is prepared.
• If any roundishand lumb or hard particles are observed in a new opened bag, do not use the product.
• The product should not be stored in damped or submerged ware-houses.
• During the application, it is recommended to wipe traces of steel trowel with sanding.
• Applications under direct sunlight should be avoided.
• Before the application, insulation boards must be checked for straight with the help of a long gauge.

COVERAGE

CT XPS, CT LAMPDOPOR, CT EPS	CT ROCKWOOL
4-5 kg/m²	5-6 kg/m²

* The consumption (kg/m²) may vary depending on the application surface and material type.

PACKAGING

• Craft sacks of 25 kg (48 sacks / 1200 kg on a pallet)

CLEANING of APPLICATION TOOLS

• After applications; tools and equipments should be cleaning with water. Dried mortars should be cleaned by mechanical methods.

STORAGE

• The products should not be stored in damped or submerged warehouses and the place should have no risk of freezing.
• Maximum 3 pallets should be over laid for short term storage.
• Maximum 10 craft sacks should be overlaid for storage.

HEALTH AND SAFETY

• Irritating to eyes and skin due to cement content. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
• Wear suitable protective clothing, gloves and eyes/face protection.
• The product should not be inhaled. Dust mask should be used if necessary.
• Keep the product out of the reach of children.

• Consult your doctor when hazardous situation occurs.
• **R37/38:** Irritating to respiratory system and skin.
• **R41** : Risk of serious damage to eyes.
• **R43** : May cause sensitisation by skin contact.
• **S2** : Keep out of the reach of children.
• **S22** : Do not breathe dust.
• **S24/25** : Avoid contact with skin and eyes.
• **S26** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
• **S37/39** : Water suitable gloves and eye/face protection.
• **S46** : If swallowed, seek medical advice immediately and show this container or label.
• For more information, please read the material safety form.

RESPONSIBILITY

All recommendations and instructions on the technical sheet are generally based on our experiences. Please contact us for applications on special surfaces not mentioned in the technical sheet. Problems caused by incorrect useages except practice recommendations Koramic Building Chemicals is not responsible.