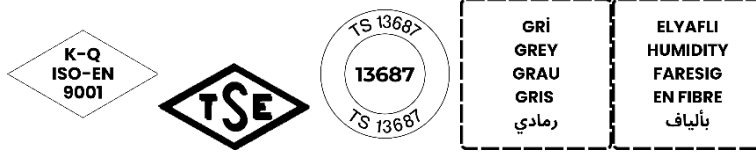


TECHNICAL DATA SHEET

MANTLE KRAFT THERMAL INSULATION BOARD ADHESIVE

DESCRIPTION

It is a cement-based, polymer-added, ready-mixed material used for plastering and bonding XPS, EPS and rock wool thermal insulation boards, optionally containing fibre.



TS 13687- Cement Based Plaster - For Thermal Insulation Board

TS 13566- Cement Based Adhesive - For Thermal Insulation Board

USAGE PLACES

- Plastering of heat insulation boards in sheathing works
- Plaster repairs up to 8 mm
- It is used for bonding polystyrene thermal insulation (XPS: Extruded Polystyrene or EPS: Expanded Polystyrene, Rock wool etc.) boards to surfaces such as brick, gas concrete, plaster, exposed concrete etc. Cemented surfaces must be manufactured at least 28 days in advance.

POINTS TO BE CONSIDERED

- Do not apply on wood, OSB, PVC, bitumen, metal, paint coated surfaces. (Mortar is cement based and does not adhere).
- Within 24 hours, insulation panel plaster and adhesive application should not be made on surfaces where frost hazard may occur.
- Avoid application under sun and strong wind. Application must be made when the surface temperature is between +5°C and +25°C . In open areas or areas exposed to the sun excessively, ground temperatures rise rapidly and this increases the water absorbency of the surface. Since the surface will rapidly absorb the water in the mortar, the mortar dries rapidly and the plaster cannot adhere well to the insulation board surface and breaks off from the surface.
- Plaster application thicker than 5 mm is not recommended.
- Since the water absorbency of the boards used in thermal insulation is very low, make sure that the plaster is dry before painting or coating.
- If the surface temperature is above +25 °C, the temperature required for the bonding process should be waited.
- After the boards are placed on the surface, they must be fixed with a dowel suitable for the surface.
- It is recommended to use protective gloves during applications. For more detailed protective measures, please refer to the material safety data sheet of the product.

ADVANTAGES

- One component, easy to prepare and apply.
- Cracks are minimised with fibre additive.
- Adhesion strength is high. Resistant to freeze-thaw cycle.
- It can be easily prepared and used only by adding water.
- When desired, it can be painted without the need for any other process.
- Adhesion resistance is high. Since water retention is high, processing time is long.

SURFACE PREPARATION

The application surface must be clean, smooth and free of paint, scraped plasters that will prevent adhesion and leveled. Holes and cracks on the surface over 5 mm should be filled with KRAFT Repair Mortar (thin or thick) 2-3 days in advance (see KRAFT Repair Mortar). For surface defects over 30 mm, the surface should be filled with KRAFT Ready Plaster mortar (see KRAFT Ready Plaster). If the surface temperature is above +25 0 C, the surface must be pre-wetted so that it is moist for the appropriate temperature. The thermal insulation boards to be applied must be firmly glued and dowelled to the applied surface. The boards should be checked before application and should never be stretched.

USAGE TYPE

1 Bag (25 kg) **KRAFT** Thermal Insulation Board Plaster is slowly added into 6-6,5 kg of water and mixed for 5 minutes with a 400-600 rpm mixer until it reaches paste consistency. The prepared **mixture is left to rest for 5 minutes**, then it is mixed again and applied to the surface of **KRAFT** EPS board dowelled with plaster / adhesive mortar with a suitable trowel. Then the plaster mesh (**KRAFT** plaster mesh) is embedded into the applied plaster surface. Then the mesh surface is completely covered with the second layer of plaster. During this process, the plaster mesh should never be pressed to the bottom of the plaster applied. Otherwise, the mesh will remain between the sheet and the plaster, not

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between the plaster layers, which will reduce the adhesion strength of the plaster to the surface. After the plaster has set, **MANTO KRAFT** DECO Coating is applied to give a direct paint or decorative appearance. As a bonding method, the adhesive is applied to the KRAFT EPS boards along the edges and in the middle with a trowel in a dotted manner and adhered to the surface by pressing. In order to increase the adhesion strength and for the boards to be more stable, the bonding process should be done by combing method. When the thermal insulation adhesive sets, the boards are fixed with KRAFT sheathing dowel suitable for the surface. KRAFT EPS boards, to which adhesive mortar is applied, are adhered to the wall by slightly sliding them to the wall in such a way that there are no gaps between the boards and the buildings are firmly joined. Before the adhesive mortar dries, the boards are squared with the help of a gauge to avoid level differences between the boards.

EXPENDITURE

5.0 kg/m²for 1 mm thickness. 5-6 kg/m² for adhesive.

TECHNICAL SPECIFICATIONS

Colour	Grey plaster	Grey ADHESIVE
Material Content	Contains cement, mineral filler and special polymer additives.	Contains cement, mineral filler and special polymer additives
Hollow Unit Volume Mass of Fresh Mortar (EN 1015-6)	≥ 1150 kg/m ³	≥ 1150 kg/m ³
Hollow Unit Volume Mass of Hardened Mortar (EN 1015-10)	1400 ± 100 kg/m ³	≥ 0.5 N/mm ² (28 days - from concrete)
Adhesion Strength to Thermal Insulation Board (EN 13494)	≥ 0.08 N/mm ⁽²⁾ (28 days)	≥ 0.08 N/mm ² (28 days)
Flexural Strength (EN 1015-11)	≥ 2.0 N/mm ²	≥ 2.0 N/mm ²
Compression Strength (EN 1015-11)	≥ 6.0 N/mm ²	≥ 6.0 N/mm ²
Grain Size (EN 12192-1)	< 0.8 mm	< 0.8 mm
Water Absorption (EN 1015-18)	≤ 5 g	≤ 5 g
Thermal Conductivity (EN 1745)	0.53 W/ (m.K) (P : 50%)	0.53 W/ (m.K) (P : 50%)
Reaction to Fire (EN 13501-1)	Class A1	Class A1
Maturation Time	min 5 minutes	min 5 minutes
Mixing Ratio	25 kg powder + 6-6,5 kg water	25 kg powder + 6-6,5 kg water
Application Thickness	At least 3 mm Maximum 5 mm	At least 3 mm Maximum 5 mm
Temperature Resistance	-40°C / +100°C	-40°C / +100°C
Container Life	2 hours	2 hours
Shelf Life	12 months from the date of manufacture under appropriate storage conditions When not in use, the packaging should be tightly closed and the material should be consumed within 1 week at the latest.	12 months from the date of production under appropriate storage conditions When not in use, the packaging should be tightly closed and the material should be consumed within 1 week at the latest.



The above values are valid at +21 °C and 50% relative humidity.

PACKAGING and STORAGE

CODE	PACKAGING
KR-405	MANTO KRAFT Thermal Insulation Board Plaster -Fibre (25 kg)

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Store the material in its unopened original packaging and in a dry environment, protecting it from frost. Especially in long-term storage, pallets should not be stacked on top of each other.