KREISEL

TECHNICAL DATA SHEET

STYRLEP RTU 251

Ready-to-use mortar for making a reinforcing layer and gluing polystyrene in thermal insulation systems.

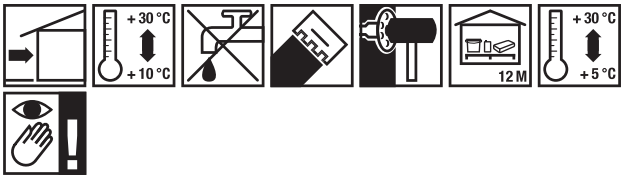
Areas of application

Ready-to-use mortar for making a reinforcing layer and gluing thermal insulation material in thermal insulation systems with white, graphite polystyrene. It is part of the RTU TURBO, RTU TURBO-S, RTU TURBO-SA, RTU TURBO-SO, RTU TURBO-SISI, RTU TURBO-SO PROTECT, RTU TURBO-MAX PROTECT, RTU TURBO ECO PROTECT thermal insulation systems by KREISEL. It is characterized by a long processing time, making it ideal for use at elevated air temperatures. Its high strength makes it an ideal solution for places that can be mechanically damaged.

Properties

- Flexible
- Ready to use
- For graphite and white foamed polystyrene
- Suitable for OSB and chipboard panels
- Very good working properties
- Frost-resistant
- Waterproof
- Impact resistant

Application procedure



Technical data

Item number	38685
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	33 unit/Pal.
Grain size	0-0,5 mm
Colour	White
Consumption	4,5 kg/m^2
Tensile adhesive strength	≥ 0,25 MPa Concrete ≥ 0,08 MPa Styrofoam
Hardening time	approx. 24 h

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Item number	38685
Density	approx. 1,8 g/cm^3
Coating thickness	0-5 mm
Drying time	24 h 72 h

Material base

- Modifying additives
- Polymers
- Quartz sand

Application conditions

Use at temperatures from +10 °C to +30 °C, these temperatures apply to air, substrate and product. Proceed to applying Styrofoam after the period of setting, compaction and drying of groundworks. Proceed to executing the reinforcing layer after a minimum of 3 days from the application of Styrofoam.

Surface

Groundwork must be ground and cleaned. All loose or non-load-bearing elements must be removed. When performing reinforcing layers on Styrofoam prone to long-terms sun exposure, grind the oxidized layer off.
Bricks and ceramic CMUs: Prime with GRUNTOLIT-W 301 or EXPERT 6
Concrete, reinforced concrete: Prime with GRUNTOLIT-W 301 or EXPERT 6. In the case of smooth surfaces, use the GRUNTOBET 310 or EXPERT 314 primer.
Autoclaved aerated concrete elements: double prime with GRUNTOLIT -W 301
Silicate blocks: Prime with GRUNTOLIT-W 301 or EXPERT 6
OSBs, chipboards, fiberboards: without additional priming
Old plasters: clean and possibly prime with GRUNTOLIT-SG 302

Preparation

Ready-to-use product. Do not dilute with water or mix with other materials. Mix thoroughly before use. Do not mix the hardened grouting mixture again.

Application procedure

Execution of the reinforcing layer: apply the mortar on the surface of the Styrofoam panel using a toothed trowel, apply a stripe of reinforcing mesh and cover it evenly. Reinforcing mesh strips should be laid with a c.a. 10 cm overlap. Single-mesh reinforcing layer should be 3-5 mm thick. In the case of gluing polystyrene boards: use only the plane method. Apply the mortar evenly on the surface of the polystyrene board with a notched trowel. When using the adhesive for mounting polystyrene to OSB boards, it is recommended to apply the adhesive to the substrate, wait for about 2-3 minutes and apply the thermal insulation board. When using graphite Styrofoam, covers limiting the effect of sun exposure must be unconditionally used.

Instructions

Protect against frostbite, precipitation and excessive drying in the execution of works and during the drying period. The use of protective covers is recommended. Further work, such as priming, plastering, can be performed after min. 3 days of drying of the reinforcing layer. The adhesive binds by evaporation of water, so in unfavorable thermal conditions, its drying and setting may be extended (in the case of low air temperatures, high humidity and low absorption of building materials). Insulation panels must be additionally fastened with suitable ties. The reinforcing layer made with this product does not require priming before applying the decorative plaster. The product should not be used for thermal insulation of underground parts of the building.

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Storage

The mortar can be stored for up to 12 months from production date in sealed packaging and at temperatures, ranging from +5 °C to +25 °C. The storage area shall be kept out of the reach of children, protected against direct sunlight and located far from heat sources and naked flames. It can be transported by any means of transport, at a temperature not lower than +5 °C. It is not subject to ADR provisions.

General information

This product data sheet replaces all its previous versions.The information, included in this technical card, represents our current knowledge and practical experience. This is general information only which shall not obligate the manufacturer to take any responsibility either for workmanship or for the manner of use. For there may be differences and specific execution conditions.The product shall be applied in accordance with required technical knowledge and OHS rules.Avoid contact with skin and protect eyes. In case of contact with eyes, rinse them up with a large quantity of clean water and consult a doctor. It shall be recommended to use gloves, safety goggles and protective clothing.
All technical data listed in this product specification has been determined under laboratory conditions.