



STYRLEP 220 EXTRA

Gel adhesive mortar for polystyrene and mesh embedding

Areas of application:

Gel adhesive for mesh and polystyrene is a modern product based on special raw materials for use in thermal insulation systems.

It is characterized by high plasticity, which facilitates application and smoothing.

The high content of fibers and polymers makes the mortar very flexible and resistant to high air temperatures after curing.

It is a part of the thermal insulation systems: TURBO, TURBO-S, TURBO-SA, TURBO-SO, TURBO-SISI, TURBO-SO PROTECT, TURBO-MAX PROTECT, TURBO ECO PROTECT, XPS TURBO, XPS TURBO-S, XPS TURBO-SA, XPS TURBO-SO, XPS TURBO-SO PROTECT, XPS TURBO-SISI, XPS TURBO-MAX PROTECT, XPS TURBO-ECO PROTECT from KREISEL brand. It is also suitable for gluing and embedding mesh on XPS boards.

Properties:

- Contains reinforcing fibers
- Smooth surface
- For graphite and white foamed polystyrene
- Also for XPS
- Flexible
- Easy to process
- Frost-resistant
- Waterproof
- Vapor-permeable

Application procedure:

Technical data	
Item no.	40391
Packaging type	
Quantity per unit	25 kg
Unit per pallet	48 Pcs/pallet
Colour	Grey
Granulation	0 - 0.3 mm
Layer thickness	3 - 5 mm
Hardening time (at approx. +20 °C)	approx. 24 h
Soluble chromium VI content	≤ 0.0002 % (2ppm)
Amount of water required	approx. 6.1 l/bag
Adhesion to (Concrete)	≥ 0.25 MPa
Adhesion to (Styrofoam)	≥ 0.08 MPa
Adhesion to (Graphite styrofoam)	≥ 0.08 MPa
Adhesion to (XPS)	≥ 0.08 MPa

The product conforms to:

- European Technical Assessment ETA 15/0576
- European Technical Assessment ETA 19/0197

Material base:

- Quartz sand
- Modifying supplements
- Polymers
- Reinforcing fibres
- Portland cement



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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.
Types of substrate:	Bricks and ceramic CMUs: Prime with GRUNTOLIT-W 301 or EXPERT 6 Concrete, reinforced concrete: Prime with GRUNTOLIT-W 301 or EXPERT 6 Autoclaved aerated concrete elements: Prime with GRUNTOLIT-W 301 or EXPERT 6 Silicate blocks: Prime with GRUNTOLIT-W 301 or EXPERT 6 Styrofoam panels: Apply directly Old plasters: clean and possibly prime with GRUNTOLIT-SG 302
Preparation:	The dry mixture should be gradually poured into a container containing the appropriate amount of clean, cool water, while stirring manually or mechanically using a slow-speed mixer, until a homogeneous mass free of lumps is obtained. Set aside for a maturing time of 5 minutes and mix thoroughly again. If necessary, depending on the conditions, slightly adjust the amount of water added. 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. Application of Styrofoam panels: apply the mortar on the panel in an even layer using a toothed trowel (surface method) or apply a trip of the grout (pile) along the edge and 3-6 spots (strip-spot method). When applying insulation panels, make sure the adhesive covers 40% of their surface. When using graphite Styrofoam, covers limiting the effect of sun exposure must be unconditionally used. When mounting XPS boards, it is recommended to roughen the surface of the thermal insulation board (e.g. by grinding). The same rules apply to the reinforcing layer as to other types of thermal insulation materials.
Application conditions:	Apply in temperatures from +5 °C to +30 °C, these temperatures refer to air, groundwork and product temperature. 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.
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. Proceed to further works after a minimum of 3 days from the execution of the reinforcing layer or the application of insulation panels Insulation panels must be additionally fastened with suitable ties. Adhere to Styrofoam manufacturer's guidelines
Storage:	Up to 12 months from the date of manufacture, in dry places and in intact packaging



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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 is given for a temperature of +20 °C and a humidity of 60 %. In the case of drying times, binding, pointing, open, correction, water resistance, etc., these values are given for a typical layer thickness of the product, which for the tile adhesive is about 5mm, primer and self-leveling screed of about 10mm, screeds about 25mm. In special cases, they may deviate from this accepted average and should be determined experimentally. In case of doubts and not included in this record, it is recommended to contact the technical department of KREISEL.