

## TECHNICAL DATA SHEET

### STYRLEP 220 ELASTYCZNY

Universal adhesive and reinforcing mortar for XPS white and graphite styrofoam



#### Areas of application

Elastic mortar for embedding a net and for fixing graphite and ordinary styrofoam boards in external wall insulation systems. It is a part of the thermal insulation systems: TURBO, TURBO-S, TURBO-SA, TURBO-SO, TURBO-SISI, TURBO-SO PROTECT, TURBO-MAX PROTECT, XPS TURBO, XPS TURBO-S, XPS TURBO-SA, XPS TURBO-SO, XPS TURBO-SO PROTECT, XPS TURBO-SISI, XPS TURBO-MAX PROTECT from KREISEL brand. Thanks to a large content of polymers, the mortar is more resistant to difficult executive conditions such as increased temperature, wind, sun. It is also suitable for gluing and embedding mesh on XPS boards.


#### Properties

- Flexible
- Contains reinforcing fibers
- For graphite and white foamed polystyrene
- Also for XPS
- Very good working properties
- Frost-resistant
- Waterproof
- Vapor-permeable

#### Application procedure



#### Technical data

Item number	34854
Packaging	
Quantity per unit	25 kg/unit
Unit per pallet	48 unit/Pal.
Grain size	0-0,5 mm
Colour	Grey
Consumption	4,5 kg/m <sup>2</sup> 4 kg/m <sup>2</sup> (gluing min.) 5 kg/m <sup>2</sup> (gluing max.) 4 kg/m <sup>2</sup> (Reinforcement min.) 5 kg/m <sup>2</sup> (Reinforcement max.)
Water requirement	approx. 5,6 L/unit

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Item number	34854
Tensile adhesive strength	$\geq 0,25$ MPa Concrete $\geq 0,08$ MPa Styrofoam $\geq 0,08$ MPa Graphite styrofoam $\geq 0,08$ MPa XPS
Hardening time	approx. 24 h
Chromium content	$\leq 0,0002$ %
Bulk density Compacted zone	1,5 g/cm <sup>3</sup>
Coating thickness	0-5 mm
Processing time	2-3 h
Processing time tip	the time depends on the temperature and air humidity

## Material base

- Microfibers
- Polymers
- Portland cement
- Quartz sand

## Application conditions

Apply in temperatures from +5 °C to +25 °C, these temperature 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.

## 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  
 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

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Thermal-insulation systems, thermal-insulation plasters, elastic surfaces:

## 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

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thermal insulation materials.

### Instructions

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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

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Up to 12 months from the date of manufacture, in dry places and in intact packaging

### General information

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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.