



Breathing Walls



NATURAL INSULATION TECHNOLOGIES

STY 160 KABA

(for new constructions Interior & Exterior)

Product Description

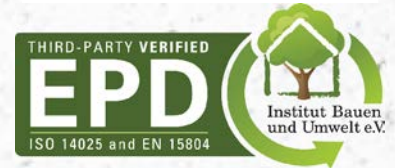
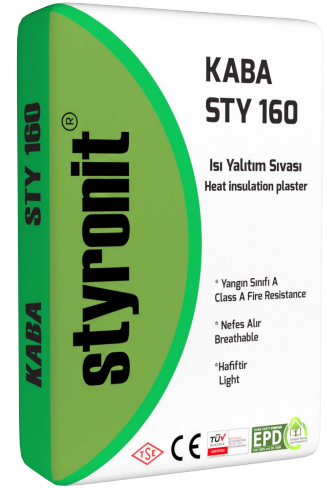
Natural thermal insulation plaster, applied internally and externally instead of classic rough plaster. It has a high breathing and adhesion ability.

Application Fields

Suitable for interior and exterior wall surfaces, bricks, aerated concrete, pumice walls and ceiling.

Advantages

- ✓ Thermal insulation
- ✓ Excellent adhesion
- ✓ Breathable
- ✓ Environmentally friendly products
- ✓ Flexible, splinter proof
- ✓ Light weight on the structure
- ✓ Class A fire resistance
- ✓ Easy to prepare and apply
- ✓ Long lasting
- ✓ The exact solution to the problems
- ✓ Economic



Surface Preparation

The application surface should be clean, dry and free from dust, grease or loose particle which may cause issues with the process. To ensure adhesion to smoother surface such as ones previously painted or concrete, timber, etc. needs to be coated first with Styronit Compact Primer. 100% of the surface should be coated when Styronit Compact Primer is applied. Wait until primer is dried. Sty 160 Kaba can be applied directly (without primer) to the surfaces including brick, aerated concrete, pumice walls.

The preparation of Mortar

Carefully empty the full content of an 9,0 kg bag of Sty 160 Kaba into a flat-bottom container. Add 15-20 lt water into the dry mixture and begin mixing for approximately 5 minutes with a mechanical mixer until desired consistency is achieved. Use full content at once.

Application

Sty 160 Kaba can be applied by machine spraying the material onto the wall or by hand. Material should be sprayed in an equal amount to the entire surface. The first layer should be splashed to the wall, after it dries the material can be applied in layers. Mesh wire should be used at junctions between concrete and wall construction elements. Galvanized wire mesh should be used after 3 cm thickness. After application the surface should be levelled in case of gaps it can be adjusted by a trowel or sponge. Be sure that Sty 160 is completely dried before final coatings applications(paints, every kinds of other coating materials). Only water based primer and paints should be used if the surface will be painted. If the surface will not be painted or will be painted later, until that time a water based transparent primer should be applied to the surface to protect the surface from external weather conditions.



SIFIR ENERJİ & PASİF
EV DERNEĞİ
ZERO ENERGY & PASSIVE
HOUSE ASSOCIATION





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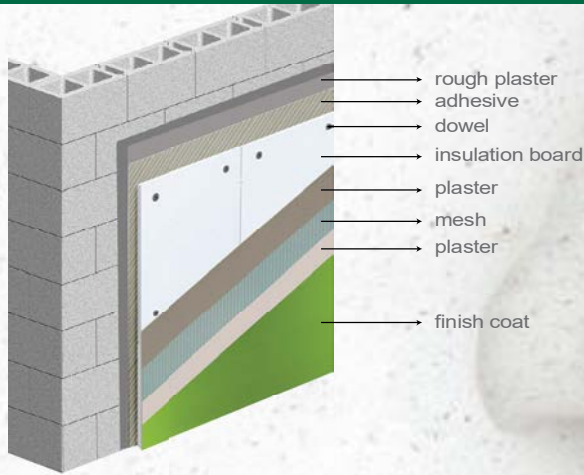


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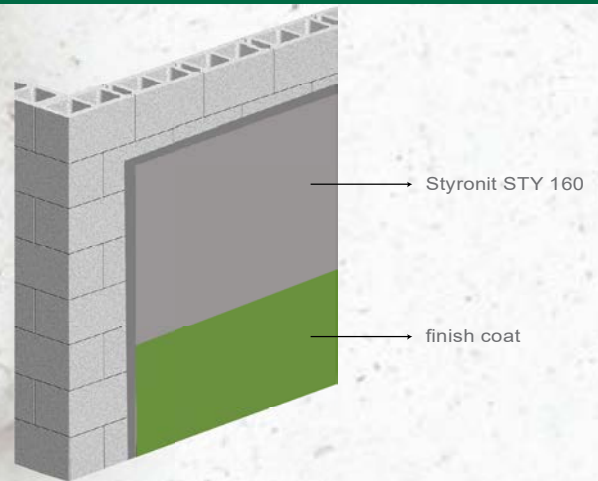
Technical Specifications

Structure of the material	: Perlite, pumice base, natural compounds, organic&inorganic fibers and binders.
Color	: Grey
Application thickness	: 1,5-7,0 cm
Consumption	: ~3,0 kg/m ² (1 cm thickness, on smooth surface)
Surface temperature	: Between +5°C and 35°C. Do not apply Sty 160 in rainy days.
Operating time	: 8 hours (depending on the ambient temperature)
Drying time	: Between layers; 12 hours (depending on the ambient temperature) It completes full drying time in 28 days under normal weather conditions.
Packaging	: 9 ± 0,5 Kg Kraft bag
Shelf life	: The product should be stored in its original packaging in dry and sheltered place. To prevent the quality of the product, it must not come into contact with the ground. It must be protected from frost and direct sunlight. It should be stacked to a maximum of 12 rows The shelf life is 12 months if the conditions mentioned in this article is provided.
Dry unit density(on wall)	: 280 ± 25 kg/m ³ TS EN 1015-10
Compressive strength	: 1,78 N/mm ² (CS1 / CSII) TS EN 1015-11
Capillary water absorption	: W1 (C≤0,4 kg/m ² sn0,5) TS EN 1015-18
Water vapor permeability,μ	: ≤15 TS EN 1015-19
Adhesive strength	: ≥0,04 N/mm ² (FP:B) TS EN 1015-12
Fire Classification	: A TS EN 13501-1
Thermal Conductivity, λ	: 0,048 W/(m.K) TS EN 12664

Classic Insulation System



Styronit Natural Insulation System



Warnings and Precautions

All necessary suitable safety equipments such as coveralls, gloves, mask, glasses, etc should be weared for occupational health and safety. Please request The Material Safest Data Sheet from us and check it for further details. All technical values have been obtained as a result of experiments done at the ideal conditions. (+23°C, %65 humidity). Curing time may change in different weather conditions (like too hot, too cold or high humidity weathers, etc). Be sure that the product is dried before next layer applications. Use only water during preparation. Extraneous material or additives shouldn't be added into the product during preparation.

Legal Notice

All technical data have been obtained as a result of experiments and experience. Our company is only responsible for the quality of the product. Make sure that the selected product is used correctly depending on the application requirements. The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. Our company does not accept and indemnity claim concerning the results, work accidents, direct or indirect damages and/or losses due to the misapplication of the product. Our company reserves the rights to improve/revise the product and/or technical document time to time. This Technical Data Sheet supersedes the former Technical Data Sheet released for this product. The user must make sure that the available technical document is the latest updated version. Please contact with us to learn the status of this documents. October 2016

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