



# Breathing Walls



## NATURAL INSULATION TECHNOLOGIES

### STY 325 BIOKLIMA

( for existing/painted buildings-interior )

#### Product Description

Natural thermal insulation material, applied to the interior walls of painted buildings. High thermal comfort and high breathability raises high the living comfort in buildings and creates a bioclimatic natural environment. The ability to reflect heat, helps to protect the thermal energy saving even on 1 cm thickness

#### Application Fields

Suitable for interior painted walls, cold storages, schools, ect.

#### 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

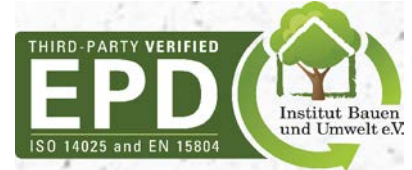
The application surface should be clean, dry and free from dust, grease or loose particle which may cause issues with the process. To ensure adhesion to smoother surface needs to be coated first with Styronit Compact Primer. 100% of the surface should be coated with Styronit Compact Primer. Wait until primer is dried. To maintain the breathability of the walls it needs to be drilled (until bricks) approximately 4-5 holes per square meter.

#### The preparation of Mortar

Carefully empty the full content of an 9,5 kg bag of Sty 325 Bioklima 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 325 Bioklima can be applied by classical methods. The first layer should be splashed to the wall, after it dries the material can be applied in layers. After application the surface should be levelled in case of gaps, it can be adjusted by a trowel or sponge. Be sure that Sty 325 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.





### Technical Specifications

Structure of the material	: Perlite, pumice base, natural compounds, organic&inorganic fibers and binders.
Color	: Beige
Application thickness	: 1,0-3,0 cm
Consumption	: ~3,0 kg/m <sup>2</sup> ( 1 cm thickness, on smooth surface )
Surface temperature	: Between +5°C and 35°C.
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	: 9,5 ± 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)	: 300 ± 25 kg/m <sup>3</sup> TS EN 1015-10
Compressive strength	: 1,78 N/mm <sup>2</sup> (CS1 / CSII ) TS EN 1015-11
Water vapor permeability,μ	: ≤15 TS EN 1015-19
Adhesive strength	: : ≥0,04 N/mm <sup>2</sup> (FP:B) TS EN 1015-12
Fire Classification	: A TS EN 13501-1
Thermal Conductivity, λ	: 0,048 W/(m.K) TS EN 12664

### 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. September 2016