



# Breathing Walls



## NATURAL INSULATION TECHNOLOGIES

### STY HRSN HORASAN ( for historical buildings Interior & Exterior )

#### Product Description

Sty HRSN Horasan is a natural plaster for renovation, restoration of historical buildings, castles, domed mosque, church and also grouting plaster to fill the gaps and used for acoustic and thermal insulation. Sty HRSN Horasan has technical report from Istanbul Metropolitan Municipality Directorate for the Conservation, Implementation and Supervision of Cultural Assets.

#### Application Fields

Used on interior and exterior walls of historical buildings, wood and stone surfaces.

#### Advantages

- ✓ Thermal insulation
- ✓ During the process it does not destroy the historical structures
- ✓ 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

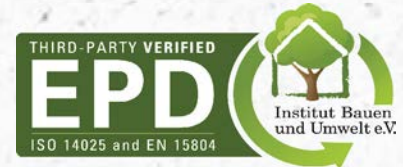
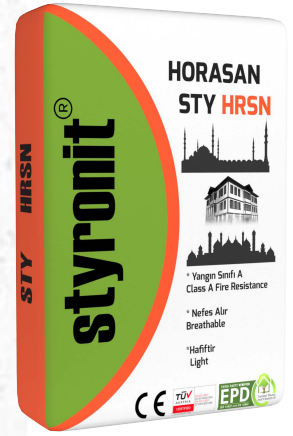
The application surface should be clean, dry and free from dust, grease or loose particle which may cause issues with the process. To ensure adhesion to smoother surface such as ones previously painted or concrete, timber, etc. needs to be coated first with Styronit Compact Primer. 100% of the surface should be coated when Styronit Compact Primer is applied. Wait until primer is dried for next applications.

#### The preparation of Mortar

Carefully empty the full content of an 9,0 kg bag of Sty HRSN Horasan into a flat-bottom container. Add 20-25 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

It 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. 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 HRSN Horasan 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.





### Technical Specifications

Structure of the material	: Perlite, pumice base, Natural Hydraulic Lime, Tiles powder, natural compounds, organic&inorganic fibers and binders.
Color	: Pink
Application thickness	: 2,0-5,0 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	: 3 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 10 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	1,0 N/mm <sup>2</sup> (CS1 / CSII) TS EN 1015-11
Capillary water absorption	: W1 ( C≤0,4 kg/m <sup>2</sup> sn0,5 ) TS EN 1015-18
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