



# THERMOSILIT®

»A NEW DIMENSION IN MINERAL TECHNOLOGY«

## NEW PATENTED MULTI-PURPOSE INSULATION MATERIAL



### THERMOSILIT® GENERAL DESCRIPTION

THERMOSILIT® has a worldwide patented process for manufacturing a low density mineral product with extreme temperature insulation qualities.

The THERMOSILIT® silicate production process uses crystalline silicate sands derived from volcanic stone sources and expands it, through a specialized heating process, into a lightweight material.

During the cool-down stage, the mineral is turned into a porous lightweight material that can easily be filled into bags, stored, and transported.

The production process is environment friendly. It only requires electric power; hence, the only emission from the production process is water vapour.

The patented THERMOSILIT® production process allows for uniform and consistent quality control.

»WE CREATE NEW STANDARDS  
FOR A BETTER ENVIRONMENT«

## ...MORE DETAILED INFORMATION.



### **THERMOSILIT® CHARACTERISTICS**

- High thermal qualities
- Class A1 fire resistance
- Naturally hydrophobic - but open to discharge vapour diffusion
- Variable, designable pressure strength
- Low bulk density (designable from min 40 kg per m<sup>3</sup>)
- Reduces water requirements in the construction material

### **THERMOSILIT® - TYPICAL APPLICATIONS**

Carrier and filler for the building materials industry

- Light filling materials (EN 13055-1)
- Insulation mortar - (cold and heat)
- Wall building mortar - Lamda from 0.05

Hydrophobic building materials

Paints

Fire resistant lining

- Wood construction
- Steelwork
- WDVS Systems

Renovation of WDVS Systems by means of fire resistant plastering

- No danger from evaporation of hydrocarbons

### **THERMOSILIT® SPECIFIC WEIGHT**

Since the specific weight of the particles can be determined during the production process, the lightweight material can also be used for other applications.

For example, it can be used as filler in paints or resins. The material does not float or sink, but totally mixes with paints or resins.

### **THERMOSILIT® IS READY FOR MARKET INTRODUCTION**

THERMOSILIT® is versatile, and can be used in a wide range of applications.

THERMOSILIT® therefore can be marketed for an assortment of industries, including plaster, mortar, resins and paints. This product is an effective insulator, is fire and water resistant, and as an added bonus it is manufactured from a natural mineral and is produced without any additives.