

THE INSULATING MATERIAL FOR ALL KINDS OF FLOORINGS AND FLAT ROOFS

# Individual and well-proven problem solving: For easy old-building renovation...

- **light weight**
- **easy to apply**
- **high assembly performance**

Ready for use, seamless processing, extremely pressure-resistant and „light as a feather“ ...

**ISOTHERMA** is a heat-insulating, cementitious leveling course in the shape of a high-quality lightweight concrete made of polystyrene, which is perfectly suitable for the application beneath screed and weight-bearing surfaces. Our insulating material is shipped as ready-for-use bagged cargo and offers a lambda coefficient of thermal conductivity of 0.078 W/mk.

One bag contains 50 l of Isotherma that is blended with 17 to 18 l of water. Thus the homogenous blend may be expeditiously and seamlessly processed without stopping. It serves as a handy leveler and thermal as well as noise insulation at the same time.

*Distributed by the authorized  
builder's merchant:*

Its high pressure-resistance amounts to 45 t/m<sup>2</sup>. Electricity, water and gas tubes will be easily and seamlessly coated in order to avoid thermal bridges.

With its bulk density of 360 kg/m<sup>3</sup> **ISOTHERMA** is a very solid material and when dry „light as a feather“. Thanks to

these characteristics it is a suitable solution to any problem concerning old-building renovation. It is applied in layers of 3 up to 30 cm.

Before starting please separate the wall connections using a screed shoulder.

## Instructions for proper use

### *The product's diverse functional range*

Water-reabsorbing materials guarantee for quick hardening within 24 to 48 hours. This time depends on the material's application density as well as the surrounding climate (respectively outside temperature and relative humidity). After this length of time **ISOTHERMA** may be carefully stepped on. This product allows for all stable floors :

- **application of common screed** (made of cement and Rhine sand) on **ISOTHERMA**. Layers of less than 6 cm should be supported by a steel mat underneath.
- **application of self-levelling screed** as layers of at least 3 to 4 cm on **ISOTHERMA**: Before applying the material an interlayer should be used as sealant ! Neither of those screeds needs a priming coat.
- **application of cement-bound dry screed elements** on **ISOTHERMA**. This technique requires **ISOTHERMA** to be levelled using an air lever.

### *Allows the application of all stable surfaces !*

**After approximately 21 days ISOTHERMA** only contains a residual moisture of 2 % and thus may be applied (calcium carbide test required) :

- **application of tiles** on **ISOTHERMA** after application of priming coat und a fibre reduced levelling compound or by the thick-bed method ;
- **application of all common stable surfaces** (parquet, laminate, natural wood etc.) on **ISOTHERMA** in accordance with the producer's guidelines.

Maximum pressure-resistance (45 t/m<sup>2</sup>) will be reached after 28 days.

**ISOTHERMA** is easily blended using a hand mixer without the need of professional expertise.

Experts may pump the material using a PFT G4 or another common plaster and screed machine.

