

DATA SHEET

„IsomaxTERM“ – Thermal-reflecting paint

Thermal-reflecting paint **IsomaxTERM** is designed for indoor and outdoor thermo-insulation and decoration of new or old walls and ceilings, facades. Quick drying: 2-3 hours. Non-flammable. The product is white aqueous solution of acrylic resin, special polymer micro-spheres, inorganic pigments and fillers. Zero VOC.

IsomaxTERM meets the requirements of EN 15824

Applications

- Residential and public buildings
- Industrial, commercial and warehouse buildings
- Warehouses with constant temperature
- Sports halls

Technical Data

- Density - $0.55 \pm 0.05 \text{ g/cm}^3$
- Viscosity - 1000 - 3000 mPa.s
- pH - 7.0 ± 0.5 (neutral)
- Drying time at 23°C - 2 h for 1 layer;
- 12 h - Complete drying
- Appearance of film (visual) - smooth to slight relief
- Adhesion base - 1.50 N/mm^2
- Good resistance to wet abrasion and washing - class 3 according to EN ISO11998
- Brilliance of the film - completely opaque, according to EN ISO 2813
- Coefficient of permeability - $0.01 \text{ kg/m}^2 \cdot \text{h} \cdot 0.5$
- Transfer coefficient of water vapor $V = 120 \text{ g/m}^2 \cdot \text{d}$
- Number of diffusion resistance to water vapor $\mu = 50$
- Heat penetration factor $\beta = 1.58 \text{ W} \cdot \text{h} \cdot 0.5 / \text{m}^2 \cdot \text{K}$
- VOC contents (volatile organic compounds) - **less than 0.1 g/l**
- Thermal conductivity $\lambda = 0.035 \pm 0.005 \text{ W/mK}$

Preparation of the product

1. Carefully open the lid and by means of a spatula or a trowel thoroughly separate the material from the walls of the bucket.

2. Stir well with an electric mixer (stirrer) at high speed (≈ 1000 rpm) until complete liquefaction.

3. If necessary, for easier spreading with roller, the material may be diluted with water up to 3% (30 ml water per 1 liter **IsomaxTERM**).

Applying IsomaxTERM

IsomaxTERM is applied onto cement, gypsum, lime surfaces, painted walls and ceilings, well-bonded wallpaper, etc. The substrate must be sound, dry, clean and smooth. To prevent overspend of material it is recommended the surfaces to be primed with **IsomaxTERM-primer** at rate of about 50 g/m^2 .

Onto preliminary primed and dry surfaces, apply a layer of **IsomaxTERM** with paint brush or roller with polyamide fibres (fibres length of 10-13 mm).

Consumption for one layer: 0.130-0.140 litres per 1 sq.m (65-70 g/m²).

Caution: Application by brush is recommended for small areas - **up to 5 m²**. Before using the roller or the brush, it must be moistened with water. On larger areas, before starting to paint with the roller and between each layer, all edges and corners of the room should be painted using a brush! Stir well IsomaxTERM every 15-20 minutes, to keep the product homogeneous.

The roller should always be well and evenly soaked with material in order to move without pressure on the surface. After the complete drying of such laid layer (about 2-3h at 23°C), further two layers shall to be laid in the same manner.

IsomaxTERM may be applied by spraying with machines using compressed air.

Total consumption of material for 1 square meter – 0.400 liters (0.200 kg).

The minimum thickness of the final dry coating should be **0.3 - 0.4 mm**. Place the lid back tightly onto the packaging of use until the entire quantity of material is spent!

Storage

Store in a dry place with temperature range $+5^\circ\text{C} \div 25^\circ\text{C}$, without direct sunlight. Shelf life in original, unopened packages - at least 24 months from the date of manufacture.

Packaging: plastic buckets of 1.0kg, 2.5kg and 5.0kg