

**TECHNICAL SHEET 02.01.26-eng**  
 LEVELLING COMPOUND

# JUBOLIN THERMO

Thermal insulating interior levelling compound

## 1. Description, Application

JUBOLIN THERMO is a dispersion levelling compound used for fine smoothing of interior wall and ceiling surfaces of residential, business, industrial and other buildings. It contains small hollow balls which create a thermal barrier across the entire thickness of a dried paint film and surface which feels warmer and more comfortable than other neighbouring surfaces. In combination with the interior thermal insulating paint JUPOL THERMO, the thermal insulation effect is even improved. Additionally, this effect reduces the condensation probability of water vapour on the coating. If the condensation occurs anyway, the water on the surface dries faster than in case of traditional wall paints. This decreases the possibility of appearance of wall mould.

After being smoothed, the surfaces are of white colour and suitable to be painted with all types of dispersion wall paints. However, in order to achieve feeling of a warmer surface and greater energy savings we recommend a combination with the interior thermal insulating paint JUPOL THERMO.

The levelling compound adheres well to lime, lime-cement and also cement fine render finishes and gypsum-cardboards. It can also be used to smooth unplastered concrete surfaces, unplastered walls made of porous concrete, fibre-cement boards, chipboards, and similar. It can also be applied onto the already painted surfaces, but only if the existing coats do not soak in water and are well adhered to the surface.

## 2. Packaging

Plastic containers holding 5 l and 15 l

## 3. Technical Data

Density (kg/dm <sup>3</sup> )		~0.94
Content of vaporous organic substances HOS (VOC) (g/l)		<25  The EU VOS requirement – category A/a (as of 1 January 2010): <30
Coat thickness (mm)		0.5 to 1mm (per individual coat) < 3 mm (total thickness)
Drying time T = +20 °C, relative air humidity = 65 % (hours)	Suitable for polishing	~12
Water-vapour permeability EN ISO 7783-2	Sd value (d = 1 mm) (m)	<0.12 Class I (high water-vapour permeability)
Thermal conductivity λ EN ISO 22007-2 (W/(mK))		0.15
Adhesion (concrete) EN 1542 (MPa)		> 0.8

Main ingredients: binder, calcite fillers, hollow balls, thickeners and water

#### 4. Surface Preparation

The surface should be solid, dry and clean, without any badly adhered particles, dust, salts that are easily soluble in water, fat linings and other filth. Hoover or sweep dust and other non-adhered filth, and wash away the non-decomposed remains of panelling oils from concrete surfaces with a high-pressure water blaster (hot water or steam). Remove paint coats and coatings from the already painted surfaces. It is obligatory to disinfect surfaces infected with wall mould prior to applying the levelling compound.

Prior to the application of a levelling compound, the newly applied render finishes have to dry or mature at least 7 to 10 days for each cm of their thickness. The levelling compound is applied to new concrete surfaces only a month after concreting (stated drying times of the surface are valid in normal conditions: T = +20 °C, relative air humidity = 65 %).

We recommend the application of a primer prior to the application of the levelling compound, while in case of highly absorbent and surfaces problematic in some other way, the application of a primer is mandatory. Use water-diluted AKRIL EMULSION (AKRIL EMULSION : water = 1:1), which is applied with a paint or masonry brush or a long-fibre fur or textile paint roller, or is sprayed. In normal conditions (T = +20 °C, relative air humidity = 65 %), the application of the levelling compound may begin 6 hours after the application of a primer.

Approximate or average consumption: AKRIL EMULSION	90 – 100 g/m <sup>2</sup>
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#### 5. Preparation of Levelling Compound for Application

Only stir JUBOLIN THERMO well before use.

#### 6. Application of Levelling Compound

The compound is usually applied in two coats. Apply the compound manually – with a stainless steel smoothing trowel – spreading it across the processed surface. Sand the final coat with fine sandpaper, No. 80 to 120.

The application of the levelling compound is possible only in suitable microclimate conditions: the temperature of the air and the wall surface should be between +5°C and +35°C and the relative air humidity should be below 80 %.

Approximate or average consumption (for 1mm thick coat): JUBOLIN THERMO~	1.0 kg/m <sup>2</sup>
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#### 7. Tool Cleaning, Waste Management

Clean the tools thoroughly with water immediately after use.

Keep unused levelling compound in a well-sealed packaging for potential repairs or later use. Mix remains that cannot be used anymore and wastes with cement (hardened mortar remains and wastes, sand or sawdust may be added to them), and when they harden, deposit them onto the dumping grounds of construction waste (waste classification number: 17 09 04) or municipal waste (waste classification number: 08 01 12).

Cleaned packaging can be recycled.

#### 8. Safety at Work

Follow general instructions and regulations for construction and painting works, respiratory protection with a protective mask and protection of eyes with protective glasses or with a safety mask is necessary only in the case of manual or machine polishing of the applied compound.

#### 9. Storage, Transportation Conditions and Durability

Storage and transportation at temperatures between +5°C and +25°C, protected from direct sunlight, out of the reach of children, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

## 10. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovenian, European and other standards. JUB ensures achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in its own laboratories, occasionally at the ZAG Construction Institute in Ljubljana and other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovenian and European standards for protection of the environment and for ensuring security and health at work, which is confirmed by the ISO 14001 and OHSAS 18001 certificates.

## 11. Other Information

The technical instructions in this brochure are given based on JUB's experience and are given as a guideline for achieving optimum results. JUB cannot accept any responsibility for the damage caused by incorrect selection of a product, incorrect use or unprofessional work.

This technical sheet supplements and replaces all preceding editions. JUB reserves the right to change and supplement data in the future.

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