

## TECHNICAL SHEET 03.01.40-eng

### INTERIOR WALL PAINTS

# JUPOL THERMO

Thermal insulating interior wall paint

## 1. Description, Application

JUPOL THERMO is an environmentally-friendly interior paint based on water dispersion of polymeric binders. It contains small hollow beads which create a thermal barrier across the entire thickness of a dried paint film and surface which feels warmer and more comfortable than in case of traditional wall paints. In combination with the interior thermal insulating levelling compound JUBOLIN THERMO, the thermal insulation effect is even improved. 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.

It is intended for decorative protection of walls and ceilings in residential and business buildings and other premises. Suitable surfaces include fine render finishes of all types, surfaces levelled with levelling compounds. **We particularly recommend the use of JUBOLIN THERMO levelling compound which additionally improves the thermal insulation, feeling of warmth and savings of thermal energy.**

Application to well-adhered old dispersion coats is also possible.

Paint film is highly water vapour permeable and resistant to dry scrubbing, so that not overly well adhered filth can be wiped off from painted surfaces with a wet cloth

We can add 5 to 7.5 % of JUBOCID (50 to 75 ml/l) to the paint for decorative protection of wall and ceiling surfaces of rooms, where condensed water is likely to appear due to high relative air humidity and with it strong likelihood for intensive development of different types of wall mould in corners, behind wardrobes and elsewhere (kitchens, bathrooms and other sanitary facilities, laundries, pantries and similar).

## 2. Packaging and Colour Shades

Plastic containers holding 5 l:

- White (shade 1001)
- Pastel colour shades according to the JUB colour chart
- Tinting to pastel shades is possible with DIPI KONCENTRAT (up to 100 ml per 5 l of paint)
- Delivery in shades designed at a special request of the customer is possible under certain conditions

Paints of various shades can be mixed in optional ratios!

## 3. Technical Data

Density (kg/dm <sup>3</sup> )	~0.8	
Content of vaporous organic substances HOS (VOC) (g/l)	<20  The EU VOS requirement – category A/a (as of 1 January 2010): <30	
Thermal conductivity $\lambda$ (W/(mK)) EN ISO 22007-2	0.15	
Drying time T = +20 °C, relative air humidity = 65 %	Touch dry	~3



(hours)	Suitable for further treatment	4-6
Classification under EN 13300	Resistance to wet scrubbing	Resistant, class 3
	Coverage	Class 3 with efficacy of 5 m <sup>2</sup> /l
	Gloss	flat matt
Water-vapour permeability EN ISO 7783-2	Sd value (l = 100 µm) (m)	<1,4 Class II (medium water vapour permeability)

Main ingredients: binder, hollow polymeric balls, calcite fillers, titanium dioxide, thickeners, water

#### 4. Surface Preparation

Surface should be solid, dry, and clean – without any badly-adhered particles, dust, remains of panelling oils, fat, or other dirt.

In normal conditions (T = +20 °C, relative air humidity = 65 %), dry or mature the newly applied render finishes and levelling compounds for at least a day for each mm of their thickness. Let concrete surfaces dry for at least a month. Remove all paint coats that soak easily and quickly in water and coatings of oil paints, varnishes and enamels from the already painted surfaces. Prior to painting, it is obligatory to disinfect surfaces infected with wall mould.

Always apply a primer prior to the first application of the paint. We recommend water-diluted AKRIL EMULSION (AKRIL EMULSION : water = 1 : 1). In the case of more demanding and lower quality surfaces (lower quality coatings made of gypsum-cardboards, gypsum render finishes, fibre-cement boards, chipboards and unplastered concrete surfaces) apply water-diluted JUKOLprimer (JUKOLprimer : water = 1 : 1). Apply the primer with a paint or masonry brush or a long-bristle fur or textile paint roller or spray it. In normal conditions (T = +20 °C, relative air humidity = 65 %), painting may begin 6 (AKRIL EMULSION) or 12 (JUKOLprimer) hours after the application of the primer.

The application of the primer is usually not necessary in the case of paint restoration and prior to the application of the paint onto surfaces smoothed with dispersion levelling compounds.

Indicative or average use (depending on absorption and roughness of the surface):

AKRIL EMULSION	90 – 100 g/m <sup>2</sup>
or	
JUKOL primer	90 – 100 ml/m <sup>2</sup>

#### 5. Paint Preparation

Only stir the paint well before use. ATTENTION! Paint thermal insulation decreases with diluting!

#### 6. Paint Application

In order to achieve better thermal insulation effect, apply the paint in three coats at intervals of 4 – 6 hours (T = +20 °C, rel. air humidity = 65 %) using a long-fibre fur or textile paint roller (length of hairs or threads is 18 to 20 mm; the following can be used: natural and artificial fur or textile linings made of different synthetic threads – polyamide, dralon, vestan, nylon, perlon or polyester), a paint brush suitable for the application of dispersion wall paints, or by spraying. When applying the paint with a roller, use a suitable bucket grid. **In case of application onto the JUBOLIN THERMO levelling compound, only two coats suffice.**

Paint an individual wall surface without interruptions from one corner of the wall to the other. Always process surfaces inaccessible to a standard long-fibre paint roller or a spray gun (corners, gutters, narrow reveal surfaces, and similar) first using suitable brushes or smaller paint rollers adjusted to existing conditions. It is recommended to remove the painting tape used as a surface protection 24 hours after the application of the last coat of paint.

Painting is possible only in suitable conditions or 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 JUPOL THERMO:

Two-coat application: 250 ml/m<sup>2</sup> – 300 ml/m<sup>2</sup>, depending on absorption and roughness of the surface

Three-coat application: 350 ml/m<sup>2</sup> – 450 ml/m<sup>2</sup>, depending on absorption and roughness of the surface

## 7. Tool Cleaning, Waste Management

Thoroughly clean the tools with water immediately after use.

Keep unused paint (only the undiluted part!) in a well-sealed packaging for potential repairs and later usage. Waste liquid remains must not be emptied into drains, watercourses or environment and they must not be disposed together with domestic wastes. Mix them 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

Respiratory protection with a protective mask and eye protection with protective glasses or a safety mask is necessary only when applying the paint by spraying. Otherwise follow general instructions and regulations on safety of construction work or works including paintwork. The use of special personal protection means and the application of special measures for safe work in the case of paint application with a paint roller or a brush is not necessary.

In case of contact with eyes, rinse with water immediately.

## 9. Maintenance and Restoration of Painted Surfaces

Painted surfaces do not require any special maintenance. Sweep or Hoover non-adhered dust and other non-adhered filth. Adhering dust and more obstinate stains can be removed by light rubbing with a wet cloth.

## 10. Storage, Transport Conditions and Durability

Storage and transport at temperature +5 °C to +25 °C, keep out of direct sunlight, out of reach of children, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 18 months.

## 11. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovene, 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 our own laboratories, at Fraunhofer IPA Institut in Stuttgart and at other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovene and European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.

## 12. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

A paint may differ from the imprint in the colour chart or from the certified sample, and the total paint difference  $\Delta E_{2000}$



for paints under the JUB PAINTS AND RENDERS colour chart – it is defined in accordance with ISO 7724/1-3 and the CIE DE2000 mathematical model – amounts to maximum 1.5, while it amounts to maximum 2.5 for colour shades from the NCS and RAL colour charts. In order to check the colour shade, a dry application of paint on a test surface is compared to a standard of the concerned shade, which is stored in the TRC JUB d.o.o. The best possible approximation for available JUB's bases and tinting pastes is a paint made in accordance with other colour charts, therefore total paint discrepancy from the desired paint may also be greater than the above stated guaranteed values. A difference in colour shade, which is the result of unsuitable working conditions, of a product preparation technique, which differs from the one in this technical sheet, of failure to follow the equalisation rules, of the application of the product onto an unsuitably prepared, over or not enough absorbing surface, more or less coarse surface, or on a wet or not dried enough surface cannot be subject of complaint.

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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The product is made by the holder of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certificates.

