

TECHNICAL SHEET 02.12.01-eng

LEVELLING COMPOUNDS

JUBOLIN P-50

Fine interior levelling compound for spray and manual application

1. Description, Application

JUBOLIN P-50 is a dispersion levelling compound used for fine smoothing of interior wall and ceiling surfaces of accommodation, business, industrial and other buildings. It can also be used to fill smaller indentations, cracks, holes, abrasions and chinks, and to repair other flaws and damages.

After being finely smoothed, the surfaces are of dirty white colour and suitable to be painted with all types of dispersion wall paints, wallpapered or processed in any other decorative manner.

It 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.

Smoothed surfaces are extremely smooth and the compound is distinguished not only by extremely high water vapour permeability, but also relatively high thixotropy, so "it does not dribble and crawl" from holes, abrasions and chinks, which are substantially deeper than the maximum allowed application thickness. This facilitates greatly the smoothing mainly of surfaces covered with holes, e.g. unplastered concrete surfaces, unplastered surfaces of walls made of porous concrete and similar.

2. Packaging

Plastic containers holding 25 kilos

3. Technical Data

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| Density (kg/dm ³) | | ~1.69 |
| Coat thickness (mm) | | 1 to 2 (per individual coat) <3 (for a two-coat application) |
| Drying time T = +20 °C, relative air humidity = 65 % (hours) | Suitable for polishing | ~12 |
| Water-vapour permeability EN ISO 7783-2 | μ coefficient (-) | <40 |
| | S _d value (t = 3 mm) (m) | <0.12 Class I (high water-vapour permeability) |
| Adhesion to conventional lime-cement render (1 : 1 : 6) EN 1542 (MPa) | | >0.45 |

Main ingredients: acetate binder, fine calcite fillers, cellulose and mineral thickening agents, 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 paneling oils from concrete surfaces with a high-pressure water blaster (hot water or steam). Remove all paint coats that soak in water and coatings of oil paints, varnishes and enamels 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 base-coats 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 %).

Prior to the application of the levelling compound, JUB suggests the application of a primer, which is obligatory in the case of intensely absorbing surfaces or otherwise problematic surfaces. 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.

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| Approximate or average consumption: | |
| AKRIL EMULSION | 90 - 100 g/m ² |

5. Preparation of Levelling Compound for Application

Since JUBOLIN P-50 is thixotropic, the pumping of the compound via the suction head of "airless" aggregates is possible only if the compound is mixed right before the suction basket is immersed into the compound in the container or chest. No special preparation of JUBOLIN P-50 is necessary in the case of application of the product with spiral and piston aggregates or in the case of manual application.

6. Application of Levelling Compound

The compound is usually applied in two coats - the thickness of an individual coat should be 1 to 2 mm and the total thickness of a two-coat application should not exceed 3 mm. Apply it by spraying or manually – with a stainless steel smoothing trowel. As far as spraying is concerned, the most suitable aggregates for such application are "airless" aggregates with service pressure of 180 to 200 bars and a spraying nozzle with the diameter of 0.035", the optimum parameters for spraying with a spiral and piston aggregates are determined by testing while following producers' instructions. Use a stainless steel smoothing trowel to spread the compound across the processed surface, to remove excess compound and to smooth the surface as much as possible.

Sand the first coat with fine sandpaper prior to the application of the second one. The same applies to the second or the final coat. Polishing can be performed either manually or mechanically. JUB suggests the use of sandpapers No. 100 or 180 for machine polishing.

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 %.

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| Approximate or average consumption (for a two-coat application): | |
| JUBOLIN P-50 | 1.5 - 2.0 kg/m ² |

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

Respiratory protection with a protective mask and eye protection with protective glasses or a safety mask is necessary only when applying the compound 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 are not necessary in the case of application of the compound with a steel smoothing trowel or a painting trowel.
In case of contact with eyes, rinse with water immediately.


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.

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| JUB d.o.o. Dol pri Ljubljani 28 SI – 1262 Dol pri Ljubljani 11 | |
| SIST EN 15824 Interior render finish based on organic binders | |
| Adhesion | Adhesion |
| Thermal conductivity $\lambda_{10, dry}$ | Thermal conductivity $\lambda_{10, dry}$ |
| Fire response | Fire response |

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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