

TECHNICAL SHEET 02.01.11-EN



JUBOLIN Silicate 0-4

Silicate levelling compound for manual and machine application

1. Description, Application

JUBOLIN Silicate 0-4 is a silicate dispersion levelling compound used for fine smoothing of interior wall and ceiling surfaces. The compound is suitable for use in rooms where high vapor permeability is required or where there is a risk of condensation due to increased air humidity, consequently leading to the formation of wall mold and algae. It has good adhesion to all types of mineral substrates or unplastered surfaces; application is also possible on already painted surfaces, but only if the existing coatings are not water-soluble and are well adhered to the substrate. Due to its composition, the compound is suitable for use in buildings that are under monument protection. The compound is easy to apply and smooth over large areas, and local indentations and other defects can be filled up to a depth of 4 mm.

The compound has good thixotropy, so it does not flow out of filled indentations, even if they are deeper than the maximum allowed layer thickness.

2. Technical data

Packaging	25 kg	
Density	~1.711 kg/dm ³	
Layer thickness	< 4 mm	
Drying time T = +20 °C, relative air humidity = 65 %	Suitable for grinding	~12 h
Average consumption	2.4 kg/m ²	
Vapor permeability EN ISO 7783-2	μ, coefficient	< 3
	value Sd (d = 3 mm)	< 0.02 m class 1 (high water vapour permeability)
Adhesion to conventional lime-cement (EN 4624)	> 0.5 MPa	

3. Installation Conditions

The temperature of the air and the wall base should be from +5 °C to +35 °C, and the relative air humidity should not be higher than 80%.

Adequate ventilation must be provided in the room where the product is used.

4. Surface Preparation

The substrate must be solid, dry, and clean, without poorly bonded particles, dust, water-soluble salts, greasy deposits, and other dirt. Dust and other loose dirt should be vacuumed or removed by sweeping. Water-soluble paint layers and coatings with oil paints, varnishes, or enamels should be removed from painted surfaces. Surfaces contaminated with wall mold must be appropriately treated before applying the leveling compound.

We recommend that before starting any work, you consider the flatness deviations according to DIN 18202/3 No. 7. (i.e., 3 mm/0.6 m; 3 mm/1.0 m; 5 mm/2.0 m; 8 mm/4 m; 15 mm/10 m).

Newly applied plasters should be dried or cured for at least 7 to 10 days for each centimeter of thickness before applying the leveling compound. For new concrete substrates, the leveling compound should not be applied until at least one month after concreting (the specified drying times for the substrate apply under normal conditions: T = +20 °C, rel. humidity = 65%).

Before applying the leveling compound, we recommend the base coat SILICATE Primer, which is mandatory for highly absorbent or otherwise problematic surfaces. Under normal conditions (T = +20 °C, rel. humidity = 65%), the application of the leveling compound can begin 12 hours after the base coat has been applied.

For technical information on these primers, please read the technical data sheet.

5. Preparation of Levelling Compound for Application

Since JUBOLIN Silicate 0-4 is highly thixotropic, pumping the compound through the suction head of "airless" aggregates is only possible if it is mixed just before immersing the suction basket into the compound in the bucket or reservoir. Mixing is also mandatory if the compound is applied manually. During mixing, the viscosity of the compound can be adjusted with the mixing time – longer mixing times lower the viscosity. Therefore, we recommend gradual mixing with intermittent checking of the viscosity.

6. Application of Levelling Compound

The compound can be applied in one or more layers – the total layer thickness should not exceed 4 mm. The compound is applied mechanically – by spraying or manually – with a stainless steel trowel. For spraying, the most suitable are "airless" aggregates with a working pressure of 190 bars and a spray nozzle diameter of 0,035". The optimal parameters for spraying with screw and piston aggregates should be determined by trial, considering the manufacturer's instructions.

The first layer should be sanded with fine sandpaper before applying the second layer, as well as the second or final layer. We recommend using sandpaper with a grit size between 180-220 and advise against using coarser sandpaper. Sanding can be done manually or mechanically.

For finishing painting, it is mandatory to use internal dispersion paints that has good vapor permeability. We can choose from JUPOL Bio silicate, JUPOL Bio lime interior paint and JUPOL Classic.

Clean the tools thoroughly with water immediately after use.

7. Storage, Transportation Conditions and Durability

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

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

8. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our

products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

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

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