

## TECHNICAL SHEET 03.17-eng

### INTERIOR WALL PAINTS

# LIME INTERIOR PAINT

## 1. Description, Application

LIME INTERIOR PAINT is white interior wall paint made on the basis of slaked lime. It is used **for decorative protection of walls and ceilings of buildings of architectural heritage, as well as of new accommodation and other buildings, especially in rooms where, whatever the reason, wall and ceiling surfaces are likely to be dampened by condensed water (kitchens, cellars, pantries, and similar)** and the use of washable paints or paints resistant to wet scrubbing is not required for such protection. Suitable surfaces include fine lime and lime-cement renders, not too rough lime and lime-cement decorative renders and old, well-adhered applications of lime wall paints.

**The paint is distinguished by the low content of vaporous organic substances and it does not contain heavy metals; it has a strong disinfecting effect to painted surfaces due to the high content of slaked lime; surfaces, which are painted with lime interior paint and which are frequently dampened by condensed water, remain resistant to infection with the most spread types of wall mould for a relatively long period of time.** It is easy to apply since, unlike conventional lime coats, **it can also be applied with a paint roller. Paint film is highly water vapour permeable and resistant to dry scrubbing**, however, it can be damaged if wiped with a wet cloth or a sponge.

## 2. Packaging, Colour Shades

Plastic containers holding 5 and 16 litres:  
 White (shade 1001)

## 3. Technical Data

Density (kg/dm <sup>3</sup> )		~1.50	
Content of vaporous organic substances (VOC) (g/l)		<8 The EU VOS requirement – category A/g (from 1 January 2010): <30	
Drying time T = +20 °C, relative air humidity = 65 % (hours)		Touch dry	4 - 6
		Suitable for further treatment	24
Characteristic s of dry colour film	Water vapour permeability EN ISO 7783-2	μ coefficient (-)	<120
		Sd value (d = 150 μm) (m)	<0.02 Class I (high water vapour permeability)
Adhesion to conventional lime-cement render EN 24624 (MPa)		>0.35	

Main ingredients: slaked lime, fine calcite fillers, cellulose thickening agents, water

## 4. Surface Preparation

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



In normal conditions ( $T = +20\text{ }^{\circ}\text{C}$ , relative air humidity = 65 %), dry or mature the newly applied renders for at least a day for each mm of their thickness. In case of paint renovation, thoroughly remove from the surface all old badly-adhered coatings, slurries and other decorative coats, all of which get easily soaked in water. 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 suggest the paint diluted with 30 % of water. Apply the primer with paint or masonry brush or a long-fibre textile paint roller or spray it. In normal conditions, painting may begin 24 hours after the application of the primer.

In the case of restoration painting, application of a primer is not necessary.

Indicative or average use (depending on absorption and roughness of the surface):	
LIME INTERIOR PAINT	90 – 110 ml/m <sup>2</sup>

## 5. Preparation of Paint

Only stir the paint well before use and, if necessary, thin it with water (up to 10 %) in accordance with consistency corresponding to application technique and conditions. ATTENTION! Paint coverage worsens quickly with diluting!

Tinting is possible only by means of some powdery oxide pigments and only to gentle pastel shades. The process is demanding and not recommended to non-experts.

Equalise the paint needed to coat the finishing wall surface (or, better still: all surfaces, which are painted in the same shade) in a container of appropriate size. In the case of large surfaces, where, in such a manner, it is impossible to technically ensure sufficient quantity of paint even for a one-layer application, mix paint from at least three containers in an equalisation container first. When a third of the so prepared paint is used, pour new paint into the container and stir it well together with the rest of the paint already in the container, etc. Equalisation of white paint of the same production batch or of the same manufacturing date, which has not been diluted, is not necessary.

Reworking the paint during application (adding tinting agents, diluting, and similar) is not allowed. Quantities necessary to paint individual surfaces are calculated or estimated on the basis of the area of these surfaces and data on consumption rate, and, in specific cases, consumption is determined by making measurements on a test surface that is large enough.

## 6. Paint Application

Apply the paint in two or three coats at intervals of 24 hours ( $T = +20\text{ }^{\circ}\text{C}$ , 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: artificial fur or textile linings made of different synthetic threads – polyamide, dralon, vestan, nylon, perlon or polyester) or a paint brush or by spraying. When applying the paint with a roller, use a suitable bucket grid.

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.

Painting is possible only in suitable weather or microclimate conditions: the temperature of the air and the wall surface should be between  $+8\text{ }^{\circ}\text{C}$  and  $+35\text{ }^{\circ}\text{C}$ , while the relative air humidity should be up to 80 %.

Indicative or average use for a two-layer application:	
LIME INTERIOR PAINT	180 – 210 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 one that has not been diluted!) in a well sealed packaging for potential repairs or later use. Do not empty waste remains into drains, watercourses or environment and do not dispose them together with domestic wastes. In accordance with waste management regulations, they are classified among irritant waste with classification number 08 01 19\*. As such, they should be disposed only in an organized manner or dumped onto specially adjusted dumping areas. If they are mixed with cement (hardened mortar remains and wastes, sand or sawdust may be added to them), they (when they harden) can be deposited 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

The product contains lime and is thus classified among dangerous preparations (indicator of danger: Xi - IRRITANT) – apply it safely, follow special instructions from the technical sheet in addition to general instructions and regulations on safety at construction work or painting works and further instructions stated below.

Warning signs on the packaging	Special measures, warnings and explanations
<p>Xi</p>  <p>IRRITANT!</p> <p>CONTAINS LIME (CALCIUM HYDROXIDE)!</p>	<p>R36/38 Irritating to eyes and skin. R41 Risk of serious damage to eyes.</p> <p>S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water. S37/39 Wear suitable gloves and eye/face protection. S46 If swallowed, seek medical advice immediately and show this container or label.</p>

## 9. Maintenance and Restoration of Processed Surfaces

Painted surfaces do not require any special maintenance. Sweep or Hoover non-adhered dust and other non-adhered filth.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is recommended. It should include a new two-layer paint application as described in the chapter entitled "Paint Application". At restoration painting, application of a primer is usually not necessary.

## 10. 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.

## 11. 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, at the Forschungsinstitut für Pigmente und Lacke in Stuttgart 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.

## 12. 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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