

## TECHNICAL SHEET 02.03.01-eng

### LEVELLING COMPOUNDS

# NIVELIN

Powdered interior levelling compound

## 1. Description, Application

NIVELIN is a powder levelling compound used for fine levelling 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 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.

NIVELIN adheres well to lime, lime-cement and also cement fine render finishes and gypsum-cardboards. It can also be used to smooth unproblematic, 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

Paper bags containing 5 and 20 kilos

## 3. Technical Data

Density (ready-to-use compound) (kg/dm <sup>3</sup> )		~1.58
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 <sub>d</sub> 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: polymeric binder, cement, calcite filler, cellulose thickening agent

## 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 %).

Always apply a primer prior to the application of the levelling compound. JUB suggests 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>

## 5. Preparation of Levelling Compound for Application

Pour the content of a bag (5 or 20 kilos) into approximately 2 or 8 liters of water and stir well manually or using an electric mixer to obtain a homogenous paste-like compound without lumps. Wait for at least 30 minutes for the compound to swell. Then stir it well again. If necessary, add some water.

Apply the prepared compound in at least 24 hours. If covered with a little water, it can be applied within a week. In this case, pour the protective water layer away before use and stir the compound again.

## 6. Application of Levelling Compound

The compound is usually applied in two coats. The thickness of an individual coat should not exceed 1 to 2 mm and the total thickness of a two-coat application 3 mm. Apply manually - with a stainless steel smoothing trowel - or by spraying. 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 expand 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. If surfaces are prepared for more demanding decorative treatments, use sandpaper no. 150 and select between sandpapers no. 80 and 120 in all other cases.

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 a two-coat application):	
NIVELIN	1,0 – 1,5 kg/m <sup>2</sup>

## 7. Tool Cleaning, Waste Management

Clean the tools thoroughly with water immediately after use.

Keep the unused powder compound in a well sealed packaging for potential repairs or later use. Mix the remains that cannot be used anymore and wastes with water and when they harden, deposit them onto the dumping grounds of construction (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 when applying the compound by spraying and in the case of manual or machine polishing of the applied compound.

## 9. Storage, Transportation Conditions and Durability

Protect the product against moistening during transport. Store in dry and airy places and out of reach of children!

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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