



CONSOLIDA NANO

Nanotechnological consolidant based on colloidal silica in aqueous solution



DESTINATION ➔ **Natural stones of any type, plasters, concrete and absorbent artifacts**, including those of historical-artistic and monumental interest.

PROPERTIES ➔ **Nano-dispersion of silanized colloidal silica in aqueous solution**, particularly suitable for the consolidation of chalking and non-cohesive mineral surfaces.

The nanometric diameter of its particles, in fact, allows it **to penetrate extremely homogeneously and uniformly inside the material**, giving excellent results both on the surface and deep in the material. Furthermore, the alkali-free formulation means that **CONSOLIDA NANO does not leave any reaction by-products**, which can be invasive or harmful for the substrate. **CONSOLIDA NANO does not change the breathability of the substrate** and does not decrease the permeability to water vapor, it does not change the chromatic aspect of the treated materials and has a **high resistance to UV rays**.

USE ➔ Apply **CONSOLIDA NANO**, only on the areas to be consolidated, on absorbent, clean and dry surfaces that show significant problems of chalking and decohesion. **Dilute the product in water** (preferably demineralised) according to the severity of the problem and the absorption capacity of the substrate. Start with a minimum dilution ratio of 1 to 3 (**25% of product in water**) for the consolidation of compact or slightly degraded surfaces, progressively increasing it according to the results obtained. **The product can be applied with a low pressure vaporizer or a soft natural fiber brush**. It is recommended to apply **at least two coats of the product**, applying the second coat after the first has dried. For highly porous and extremely absorbent substrates, apply until saturation. In any case try to apply the product evenly, avoiding surface stagnation. Wait at least 10/15 days in order to evaluate the effectiveness of the treatment and apply any subsequent protective products. Carry out preliminary tests on the surface to be treated in order to avoid any possible darkening of the surface or an unwanted glossy finish.

YIELD ➔ As an indication **12-24 m²/lt** of product.

TECHNICAL DATA

- ➔ **APPEARANCE**: transparent straw yellow liquid
- ➔ **SPECIFIC WEIGHT**: 1,3 Kg/l ± 0,1
- ➔ **AVERAGE PARTICLE DIAMETERS**: 12 nm
- ➔ **DRY RESIDUE**: 37 ± 5 %
- ➔ **pH**: 8,0
- ➔ **DRYING TIME**: from 24 to 48 hours depending on weather conditions

PACKAGING

1CR105L5 ➔ 2 x 5 liters plastic **TANK**

SPECIFICATION ➔ Consolidating agent based on nano-dispersion of silanized colloidal silica in aqueous solution, particularly suitable for the consolidation of chalking and non-cohesive absorbent surfaces (such as **CONSOLIDA NANO** by CIR). The product must have an excellent penetration capacity and perform a good consolidating action, both cortical and deep, keeping the color and breathability characteristics of the substrate substantially unchanged. The product must be diluted with distilled water as needed, it must be easily applied by brush or low pressure vaporizer. The product must be accompanied by a 16-section safety data sheet as required by the legislation in force.

WARNINGS

- ➔ Product intended for professional use.
- ➔ Operating temperatures + 5 ° C / + 35 ° C.
- ➔ Carefully protect the surfaces for which the product is not intended.
- ➔ Do not apply in conditions of high humidity of impending rain and in conditions of full sun.
- ➔ Equip the operators as required by current safety regulations.

HAZARD AND PRECAUTIONARY STATEMENTS

HAZARD STATEMENTS "H":
EUH210 Safety data sheet available on request.

All information contained in our records correspond to our best knowledge of current techniques and cannot be considered binding or challenging as the real application conditions, verifiable case, may also result in major changes of both practices described above and the results obtained. Perform preliminary tests to determine if the product is suitable for the intended or not. We decline any liability for any damage resulting from improper use or misuse of the product. Do not litter in the environment. This data sheet replaces all previous versions.