

Puro_titanium & VOC Free

Silicate-based breathable paint for interiors.

DESCRIZIONE

Puro_titanium & VOC Free is a water-based matt mineral paint for interiors, formulated with polysilicate of potassium, odorless and without biocides, volatile organic compounds (VOC) and Formaldehyde.

Puro_titanium & VOC Free sensitively reduces the formaldehyde concentration in the surrounding environment, as tested per the specific law ISO 16000-23.

Puro_titanium & VOC Free represents the expression of Novacolor commitment to the environmental sustainability. To reduce the "carbon footprint", **Puro_titanium & VOC Free** is formulated with a special binder, made from sustainable biomass, that replaces the fossil raw materials.

This is possible thanks to a technical-productive system called "mass balance approach" certified REDcert².

It contains an innovative mix of mineral charges that guarantee hiding without the use of Titanium dioxide.

Its innovative formulation makes **Puro_titanium & VOC Free** suitable for the application on each kind of walls, mineral or synthetic paints, and direct application on plasterboard. The high breathability and alkaline nature help to preserve the substrate from mold development.

APPLICATIONS

Puro_titanium & VOC Free can be applied on:

- New and old base hydraulic binder-based plaster.
- Concrete surfaces.
- Gypsum and plasterboard surfaces
- Old paints and organic or mineral coatings, dry, compact, absorbent and cohesive.
- Various absorbent mineral conglomerates.

Surfaces should be properly prepared following the procedures illustrated in the paragraph "**SUBSTRATE PREPARATION AND APPLICATION**".

IDENTIFICATION FEATURES

Nature of the binder: Polysilicate of potassium, polymeric dispersion based (fossil resources replaced with sustainable biomass based on "mass balance approach").

Volume UNI EN ISO 2811-1:

Puro_titanium & VOC Free Bianco: 1,57 +/- 0,05 g/ml

REDcert² certified product: fossil resource saving product by using renewable raw materials in the value chain.

Classification UNI EN 13300:

Wet-scrub resistance ISO 11998: class 3

Gloss EN ISO 2813: <5, dead matt

Water vapour transmission rate UNI EN ISO 7783-2: class V1 (Sd<0,14 m high) Sd<0,1 m

PERFORMANCES

Gross heat of combustion (calorific value) (*) ISO 1716:2010

<0,2 MJ/kg

(*) European Class of Reaction to Fire A1

Reduction of formaldehyde concentration:

ISO 16000-23 (tested at Eurofins Denmark; report 392-2016-00026301): > 80%.

The process lasts not permanently, as the property is strictly linked to the environmental conditions.

OTHER FEATURES

Wet-scrub resistance UNI 10560: >2000 cycles, resistant.

Drying time (T=25°C; U.R.=65%): to the touch in 60 minutes; re-coatable after 4 hours.

Indoor Air Quality: A+

DILUTION

Puro_titanium & VOC Free: dilute the first and second layer 25-35% max. with water.

For applications with airless, the dilution varies depending on the kind of tool and the pressure.

WARNINGS

Mix the material thoroughly before tinting and before application. Do not apply on fresh/new and essentially alkaline substrates; wait for a maturation period with general duration of 4 weeks. Application on concrete surfaces has a decorative function.

SUBSTRATE PREPARATION AND APPLICATION

(Referred to environmental conditions T=25°C, UR=60%)

The substrate must be perfectly dry, dust-free, with no humidity and salt stains.

Resurface or consolidate the surface with specific products if necessary.

In case of mould, treat the surface with suitable specific products.

Brush or remove any efflorescence and old peeling paint.

Higher layers of old lime-based paint and tempera paint must be removed. Brush out dust, smog or other deposits before the application.

In case of chalky and non-homogeneous surfaces, apply a layer of **Zer0 Primer** (mineral water-based primer) using a brush.

Over dry substrate, apply the first layer of **Puro_titanium & VOC Free** with roller, brush or airless.

Once the substrate is completely dry, generally in 4 hours, apply a second layer of **Puro_titanium & VOC Free** with roller, brush or airless.

Drying time: 24 hours approx. depending on the kind of substrate, absorption rate and environmental conditions.

PRECAUTIONS

The material must be protected from freezing and thermal shocks throughout the entire application process.

Do not apply when air, substrate and product temperatures are below +8°C or above +35°C, or in direct sunlight, or on hot surfaces (even if already in the shade). Environment humidity must be < 75%; the humidity of the substrate must be < 10%.

Technical data sheet: Puro_titanium & VOC Free

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It is recommended to finish the job using the same production batch. If different batches are used, we advise mixing the different batches together in order to avoid slight colour differences.

For correct use of the materials mentioned, dilution and application, read the relative technical data sheet carefully.

Correct use of individual protection equipment (PPE) is recommended during all preparation of the substrate, products and application of the same.

CLEANING EQUIPMENT

Clean with water immediately after use.

YIELD

Puro_titanium & VOC Free: 5-6 m²/l in two layers for applications on smooth and absorbent substrates. It is recommended a preliminary test on the specific substrate to verify the effective yield.

COLOURS

White and colors from **Lime Paint** and **Interior Paint Collection**.

PACKAGING

1 l; 5 l; 14 l

STORAGE CONDITIONS AND SHELF LIFE

The product must be used preferably within 2 years from the production date if kept in its original un-opened container and in conditions with suitable temperature.

SAFETY INDICATIONS

Directive 2004/42/CE:

Puro_titanium & VOC Free (matt coatings for interior walls and ceilings)

EU limit value for Puro_titanium & VOC Free (cat A/a): 30 g/l (2010)

Puro_titanium & VOC Free contains max. 0,5 g/l VOC.

Irritant / risk of serious damage to eyes / skin irritant / keep out of the reach of children / avoid contact with eyes / in case of contact with eyes, rinse immediately with plenty of water and seek medical advice / wear suitable gloves and protect eyes / face / if swallowed, seek medical advice immediately and show this container or label. The product must be transported, used and stored in accordance with current legislation concerning health and safety; let residues dry out completely and treat them as special waste. For further information, consult the MSDS.

N.B.- NOVACOLOR guarantees that the information herein is provided to the best of its experience and its technical and scientific knowledge; however, it cannot assume any liability for the results obtained using these products since the conditions of application are beyond its control. We recommend that you always check the suitability of the product to each specific use. This current edition supersedes all previous information sheets.