

## NATURAE

Mineral lime paint for interior and exterior.

Lime, an ancient material, inextricably related to the Italian tradition, meets modern technologies to create a high-quality paint with low VOC content (max value 10 g/l).



Mineral paint



Excellent vapour permeability



Low VOC content



Qualifies for green credits



Coverage  
18 – 20 m<sup>2</sup>/l  
for coat



Dilution  
30% with water



Interior/Exterior

### DESCRIPTION

Mineral lime paint for interior and exterior walls, with natural binders and additives, compliant with DIN 18363 standard, low VOC content (max VOC 10 g/l) for a pleasant matt effect. **NATURAE** qualifies for green credits according to LEED and GBC standard. **NATURAE** is composed of traditional organic material and improved through modern technologies to achieve an excellent paint in terms of performance and application. Thanks to its mineral composition, it is highly vapour permeable and can considerably reduce substrate humidity, therefore avoiding flaking and detachments normally caused by the humidity in the underlying plaster. Its mineral composition prevents the proliferation of moulds and microorganism, in a natural way, without the use of harmful chemical additives. Its action is effective as long as external factors do not modify its pH. Once dry, it is not dusty and in contact with air it develops the natural carbonation process and turns into a compact, resistant and long-lasting surface.

### USE

Ideal for the creation of a safe environment. Particularly suitable for children's rooms and rooms subject to humidity such as bathrooms and kitchens. Ideal paint for green buildings and for preservation and renovation of buildings.

### PROPERTIES

- Non-toxic and odourless, provides a safe environment and improves the psychophysical well-being.
- Excellent vapour permeability, significantly reduces the relative humidity.
- Counteracts the proliferation of moulds and microorganism in a natural way without the use of chemical additives.
- Creates a compact, resistant and long-lasting surface.
- It qualifies for LEED and GBC green credits.

### SUITABLE SUBSTRATES

Ideal on lime plaster, lime-cement plaster, old paint and mineral coatings. In interiors it can also be applied on previous synthetic paints or different substrates, after proper preparation of the surface, but the underlying substrate will compromise vapour permeability of the system.

### SURFACE PREPARATION

Surface must be dry and cured, perfectly anchored to the substrate, free from dirt, grease, mould, bacteria, fungi, efflorescence or anything that could compromise adhesion or the successful outcome of the work. In case of non-adherent plaster remove incoherent parts and restore the surface with ARCADIA INTONACO or INTOCALCE, depending on the thickness to be recovered. **Exterior:** On lime plaster, lime-cement plaster, or old lime paints, if well adherent, **NATURAE** can be applied directly. In case on non-adherent surfaces consolidate with ACCADEMIA SILIK PRIMER diluted 2:1 – 1:1 with water. Old paints and synthetic coatings need to be removed and then apply INTOCALCE or ACCADEMIA STRUCTUR. **Interior:** On mineral non-flaky surfaces apply **NATURAE** directly, after moistening the surface with water. Otherwise, first consolidate the surface with ACCADEMIA SILIK PRIMER diluted 2:1 – 1:1 with water. On putty and skimcoats, consolidate the surface with PRIMER A diluted 1:4 and apply 1 coat of SMARTCOAT EXTRAFINE 0.1 mm as basecoat. Old synthetic paint needs to be removed. Afterwards apply ACCADEMIA STRUCTUR or SMARTCOAT EXTRAFINE 0.1 mm as basecoat.

**NATURAE** can also be applied on non-fully cured mineral plaster (fresh plaster). Scrape the surface to be painted, remove, and restore any incoherent part. In case of dusty plasters or high temperatures it is advisable to moisten the surface with water abundantly. NB. When applied directly on plaster the consumption rate will be sensitively higher than the standard (see Technical Data).

## APPLICATION

**NATURAE** is applied by brush or roller, at temperatures between 10 and 35°C. Dilute it with water 20-30% in volume and apply in 2-3 coats with crossed brush strokes on the whole surface. Wait 6-8 hours in-between coats and moisten the surface with water by spray or brush before application of the next coat. Do not colour the product with organic chemical colourants as this would compromise colour stability. The result will be a uniform colour, but with light veiled nuances given by the mineral composition of the product.

With **NATURAE** it is also possible to achieve decorative effects:

**Annuolato effect:** dilute the 1<sup>st</sup> coat 30-40% with water and apply it by crossed brush strokes on the whole surface. Wait 6-8 hours, moisten the surface with water, then apply the 2<sup>nd</sup> coat diluted 20-30%. The 2<sup>nd</sup> coat should be also applied by crossed brush strokes, but in a less homogeneous manner on the surface, also moving from one portion of the wall to the other. This application technique will accentuate the cloudy effect, compared to a standard application.

**Filato effect:** dilute the 1<sup>st</sup> coat 30-40% with water. Apply by vertical brush strokes on the whole surface. Wait 6-8 hours, moisten the surface with water, then apply the 2<sup>nd</sup> coat diluted 20-30%. The 2<sup>nd</sup> coat should also be applied by vertical strokes, but in a less homogenous manner on the surface, also moving from one portion of the wall to the other.

Exterior: we recommend a final protection with water-repellent silane-siloxane products such as PROTEXIL IMPERMEABILIZZANTE silane/siloxane-based deep-penetrating water-repellent. Apply by brush or low-pressure spray to full saturation of the surface. Apply in two coats fresh-on-fresh, making sure to protect the surface from rain during the full system application and for at least 3 days from application of the protective coat. The final protection will improve water-repellence, resistance to acid rains and surface cleanliness overtime. It is especially recommended to apply the protective coat in case of application on particularly water-repellent surfaces such as dehumidifying plasters, to avoid fast wear of the final layer.

## TECNICAL DATA

### CONSUMPTION

On skimcoats and plasterboard: 0.05 – 0.06 l/m<sup>2</sup> per coat.

On mineral plaster: 0.45 – 0.55 l/m<sup>2</sup> per coat.

The consumption rate is indicative and considers application on smooth and absorbent substrates. We recommend verifying actual consumption with a preliminary test on the specific substrate.

### DRYING TIME AT 20°C

4 hours

### SPECIFIC WEIGHT

1.280 ± 0.05 kg/l

### STORAGE

12 months in sealed package at temperature > +5°C.

### COLOUR

white, "I Colori del Colore", "Armonie d'interni".

### PACKAGES

10l – 5l

## IMPORTANT NOTES

- Surface must be perfectly dry and cured and well-adherent to the substrate, free from dirt, grease, mould, bacteria, fungi, efflorescence or anything that could compromise adhesion or the successful outcome of the work.
- Store away from frost (minimum + 5°C).
- Store in a cool, dry place away from sunlight.
- Use the product at room and substrate temperature between + 10°C and + 35°C and with relative humidity < 75%
- Avoid drying when room and substrate temperature is below +5°C.
- Do not apply when rain is imminent, in full sunlight, when it is very windy or with persistent fogs.
- Protect surfaces against driving rain until the product is fully cured.
- Position scaffolding for continuous application as far as architectural interruptions so as to prevent the creation of joints, overlaps and colour differences.
- Purchase the colour in a single batch in a sufficient quantity to complete the job or at least a sufficient portion of the job in order to avoid visible colour differences.
- Wash the tools with water immediately after use.
- Due to its high alkaline nature of the product, it could irritate the skin and eyes. Avoid contact.
- For any issue not covered by TDS, please refer to the relevant safety sheet and/or contact our Technical Office.

### Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE:

a) "matt coatings for interior walls and ceilings":

Limit Phase II (from 01/01/ 2010): 30g/l.

Max VOC in the product: 10 g/l.

## **PLEASE NOTE**

When applied in exterior, the product can be subject to uneven staining and discolouration due to its mineral composition. Among the reasons: different absorption rate in the substrate, exposure to a variety of atmospheric agents. In addition, exposure to heavy and persistent rain in the first days after application, especially if the rain is acid, can give rise to the formation of a whitish superficial patina due to a chemical reaction of calcium hydroxide not yet carbonated, a phenomenon that tends to disappear over time with subsequent washing. These imperfections are not to be considered product defects but a result of its organic nature.

*The above information has been obtained from scrupulously controlled tests, and represents our best and most recent knowledge. This information is provided for reference purposes only. It is not binding upon the manufacturer, and neither may it constitute grounds for any kind of complaint whatsoever associated with the use of the products described, also considering that the conditions of use are beyond our control.*