

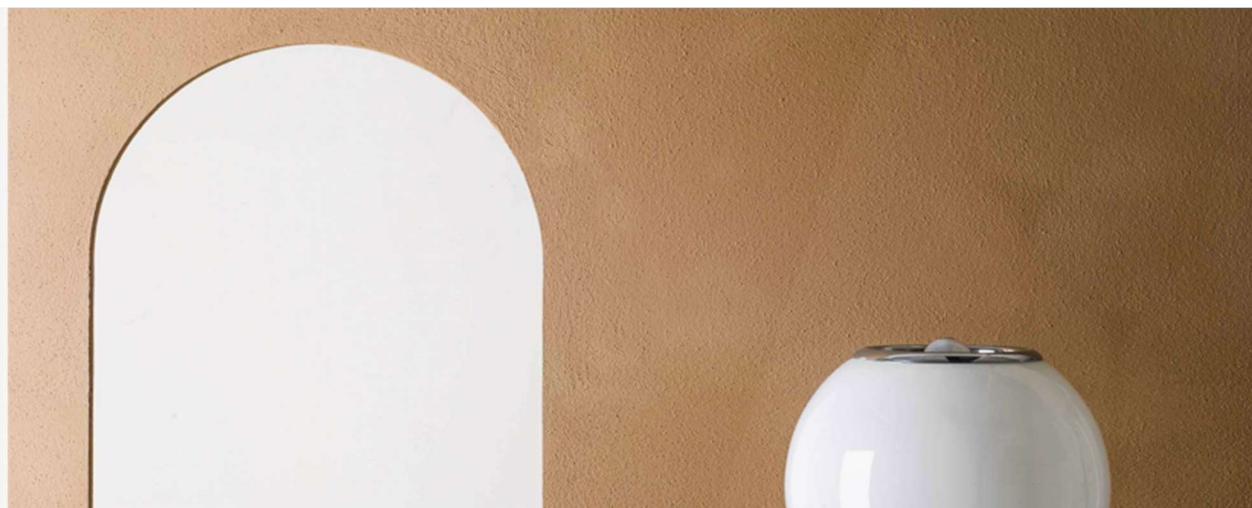
VIXALIT 500



Green
Building
Council
Italia



FINISHES



PRODUCT DESCRIPTION

Description

Lime-based mineral paint

Intended use

Indoors and Outdoors

- New mineral surfaces
- Old and damaged mineral surfaces

Main features



- Wall paint based on lime, colourants, micronised calcium carbonate and specific additives
- Excellent adhesion on natural hydraulic lime-based and lime cement-based plaster substrates
- It should be applied to plasters prepared with natural white hydraulic lime, whose surface should preferably be coated with a finishing mortar
- The mineral paints obtained with the use of VIXALIT 500 have outstanding characteristics of permeability to water vapour, resistance to mould and bacteria, and stability over time
- Painting done with a brush and VIXALIT 500 ensures the aesthetic and chromatic effects of the traditional lime paints used in the past, with the typical marbling and chiaroscuro of ancient walls
- Category A + for indoor emission

Main technical data

Technical information	Method	Main data at 20°C and 60% of R.H.
Theoretical yield per coat	ISO 7254	8÷10 m ² /L

Total yield per application for Concrete S effect	ISO 7254	2.5÷3.0 m ² \L
Total yield per application for Moon Crater effect	ISO 7254	3÷4 m ² \L

Available colours

White and other colours achievable with the tintometric system

LAYING

Dilution and preparation of the product

- Brush application: dilution 30÷40% by volume with water (first and second coat), 20÷30 (third coat)
- Roller application for Concrete S effect: ready to use
- Spray and air application: dilution 30÷40% by volume with water (first and second coat), 20÷30 (third coat)

Application tools

- Soft bristle brush – for standard paint application
- Roller – for decorative effects only, no painting
- Airless gun - for decorative effects only, no painting

Preparation of the substrate (external and internal)

NEW WALL SURFACES

For mineral substrates: adequately wet the substrate with water, in order to create the conditions for the chemical adhesion of the lime paint on the mineral substrate.

For other types of support such as concrete, plasterboard and cement-based plasters, make sure that the substrate is perfectly seasoned. Apply at least one coat of VIEROGRIP PLUS unifying base coat, based on potassium silicate, formulated to make the substrate suitable for receiving a mineral finish; wait 24 hours before applying the finish.

OLD SURFACES ALREADY PAINTED OR PARTIALLY DEGRADED

In case of dirt and mould, before carrying out any operation, it is necessary to perform a treatment with specific anti-mould sanitising products, taking care to leave them to act before carrying out a suitable cleaning.

Carry out a careful scraping (mechanical or manual) in order to remove every element that is detaching or in any case is not perfectly cohesive and anchored to the substrate; assess if the complete removal of old paint is necessary.

For mineral substrates: in case of dusting and chalking, both internally and externally, it is necessary to apply a coat of silicate consolidating fixative SILICA FONDO SD and wait 24h. Then apply the VIEROGRIP PLUS base paint to give uniformity and filling to the surfaces and wait 24 hours before applying the finish.

In the case of a cohesive anchored substrate, it will be sufficient to proceed with a suitable wetting of the surface with water, and then to apply the finish.

For other types of substrate such as concrete, plasterboard and cement-based plaster, clean the substrate perfectly, eliminating any flaking elements of old paint and/or plaster, dirt, grease, etc. by brushing, or mechanical scraping; possibly assess a high pressure water cleaning. Any plastering must be done with finishing mortars or suitable skimming plasters. The substrate plaster should be absorbent, solid, free from oil, grease, saltpetre and dust.

Apply at least one coat of VIEROGRIP PLUS unifying base coat, based on potassium silicate, able to make the substrate suitable for receiving a mineral finish; wait 24 hours before applying the finish.

Application system

Apply with a brush interposing a horizontal coat to a vertical coat; alternatively, apply the second coat by crossing the brushstrokes, thus enhancing the chiaroscuro effect and the typical marbling of lime.

After applying the second coat, it is possible to finish the cycle by working the product diluted at least to 50% with a pad or sponge, reinforcing the colour by one tone (glazing/watercolour).

It is possible to protect and waterproof the surfaces immediately after the second coat of VIXALIT 500 has dried, as follows:

- on external surfaces by overapplying the L105 lime finishing solution, or with the VIEROVEL siloxane water-repellent protective product, on a perfectly dry substrate;
 - on internal surfaces by overapplying the SAPONIL or NATURWAX ECO solutions for lime finishes, or the VIEROVEL siloxane protective water-repellent, on a perfectly dry substrate.
- Touch dry: 3÷4 h
 - Dry in depth: 2÷3 weeks (60-70% of lime). The complete carbonatation process takes 8÷12 months.
 - Overcoat: 12÷24 h

Application for Concrete S effect

To achieve the Concrete S effect, apply VXF following the methods given in the relative technical data sheet. After it has dried, apply undiluted VIXALIT 500 with a roller and ensure that it is spread fairly evenly. Wait about 3–4 minutes and then polish with a stainless steel trowel. Polishing must be done taking care to preserve, without eliminating, all those small craters and cracks that were created once the wooden boards used to apply VXF were removed. If after polishing the aesthetic effect is not satisfactory, proceed with a second coat of VIXALIT 500, wet on wet, applied as described above.

Application for Moon Crater effect

To achieve the Moon Crater effect, apply VXF following the methods given in the relative technical data sheet. After it has dried, apply VIXALIT 500 in the same colour using a large spalter brush. Immediately after application, sand with a stainless steel trowel. Sanding will create a randomly reflective effect of the

VIXALIT 500 on the VXF, and filling the VXF where the holes and build-ups were created will accentuate the typical crater pattern. As soon as it has been sanded, immediately apply a second coat of VIXALIT 500 wet on wet following the same procedure (spread it with a brush and sand it immediately afterwards with a hand float). Polishing/sanding VIXALIT 500 will not change the craters created by the VXF because of waiting for its complete drying.

Conditions of application

- Do not apply on sun-drenched walls or where ambient or substrate temperatures may drop below +5°C or rise above +35°C in the first 24 hours after application; relative humidity must not exceed 75%
- The final shade of the applied product is dependent on the porosity and absorption of the substrate, as well as the thicknesses applied. We advise to check the colour after the plaster has completely dried. The final finish will be matt, with light/dark hues
- Apply on homogeneous substrates, complete the façade-wall without stopping, avoid the recovery of material that is now dry; in the case of very large surfaces, provide for suitable interruptions near drainpipes or technical joints
- Protect the applications from rain, frost, fog, dew and dust for at least 48 hours with plastic sheets, until they are completely and thoroughly dry
- New plasters must be left to season for at least 4÷6 weeks, to allow them to complete the natural carbonation process; new patches must also be left to mature perfectly

Practical advice

- Avoid application of the product in direct sun or on particularly windy days
- Store the product in its original container at a temperature between +5°C and +35°C
- Faint hues and shading of the colour (lighter and darker) are an aesthetic characteristic, typical of the product
- At the end of the work, immediately clean the tools with water.
- As it is a natural product, the mixture may contain undercooked or not hydrated limestone fragments
- Apply a single batch on the same side or request a continuing batch
- With the construction site in progress, to limit the visibility of interruptions, consider proceeding along the wall with diagonal rather than vertical work sequences
- Given the natural composition of the product, the final colour will have a shaded appearance with chiaroscuro effect and haloing depending on the different absorption of the plasters, on the climatic conditions and the application methods
- IMPORTANT: the product cannot be applied to surfaces already painted with synthetic paints, nor on wooden or plasterboard substrates
- The product completes its drying and carbonation processes within 8–10 days in optimal environmental conditions (5 - 30°C; R.H. max. 85%). Should the product be washed away by rainwater during this time, unsightly dripping with a translucent

and whitish appearance may appear. This phenomenon, of a temporary nature, does not affect the qualitative characteristics of the product and can be easily eliminated by hydro-washing or by waiting for future rainy events.

Known incompatibilities

None.

For any use other than that indicated in this technical data sheet, contact our Technical Assistance Service

Cleaning of tools

With water immediately after use.

Safety Precautions

- The product is very alkaline. Protect your eyes during use and in case of contact wash thoroughly with water and consult your doctor.
- Keep the jar tightly closed after use, away from heat sources, away from frost and direct sunlight.
- The safety information for the user is contained in the relevant safety data sheet
- Empty containers must be disposed of in compliance with local regulations.

OTHER INFORMATION

Classification (UNI EN 1062-1)

G3 E1 S1 V1 A0 C0

VOC classification (Directive 2004/42/EC)

Matt paints for indoor walls and ceilings.
EU VOC limit value for VIXALIT '500 (cat. A/a): 30 g/L (2010).
VIXALIT '500 contains a maximum of 30 g/L of VOC.

Other technical information

Technical information	Method	Main data at 20°C and 60% of R.H.
Gloss	EN ISO 2813	Class G3 (<10, Opaque)
Grain size	EN ISO 1524	Class S1 (<100 µm, Fine)
Density	UNI 8910	1.36÷1.44 g/ml
Brookfield viscosity	ASTM D 2196	5,000÷10,000 cps
Water vapour diffusion resistance factor (Sd) (film thickness 90 dry microns)	ISO 7783-2	< 0.08 m Class I (high according to EN 1062-1)
Diffusion of WDD water vapour	ISO 7783-2	> 150 g/m² in 24 h High

Flash point	UNI 8909	Non-flammable
Storage life	UNI 10154	At least 12 months

SECTION LEED

The Vixalit 500 Product can contribute to the final score of buildings that apply the LEED version 4.1 standards, contributing to the following credits::

MR Building Product Disclosure and Optimizations: Environmental Product Declaration

EPD TYPE	PROGRAM OPERATOR	NUMBER
Standard	EPD International AB	EPD-IES-0016375:002

MR Building Product Disclosure and Optimizations: Material Ingredient Optimization

MATERIAL INGREDIENT OPTIMIZATION	DECLARATION
International Alternative Compliance Path - Reach Optimization	Substance SVHC < 100 ppm

ITEM SPECIFICATIONS

Application of lime-based wall paint - VIXALIT '500 - with high water vapour permeability, adhesion to the substrate and stability over time. Applying VIXALIT '500 with a brush ensures the appearance and colours of traditional lime paints used in the past. The lime-based formulation gives the paint a natural preventive protection against the formation of algae and fungi. Product classified in Class V1 for vapour permeability according to ISO 7783-2, it is applied by brush after diluting with water at a ratio of 30÷40% with an indicative yield of 8÷10 m²/Lt per coat.

Price on site € _____ per m² including materials, labour, excluding scaffolding, protections and any surface preparation.

All the technical indications contained herein are the result of our best experience, are indicative and do not constitute a guarantee of results. The data and methods shown on this technical data sheet can be modified at any time depending on any change in production technologies. The application of the products takes place outside our control and therefore falls under the sole responsibility of the customer. The correct use of the materials assumes compliance with the general requirements for use set out in the GENERAL CONSIDERATIONS page of the PRODUCT INFORMATION SHEETS collection and in particular with what is indicated in this sheet, especially with regard to the preparation and suitability of the supports. The technical service of Cromology Italia spa is available to users to provide additional information to that reported here. THIS DATA SHEET REPEALS AND REPLACES ANY PREVIOUS EDITION.

**CROMOLOGY ITALIA SpA ORGANISATION WITH QUALITY, SAFETY AND ENVIRONMENTAL
MANAGEMENT SYSTEM ISO 9001, OHSAS 18001, ISO 14001 CERTIFIED BY BUREAU VERITAS SpA.**

PROFESSIONAL USE ONLY