VXF

FINISHES

PRODUCT DESCRIPTION

Description

Slaked lime-based mineral plaster with an opaque appearance.

Intended use

For indoor and outdoor use.

- Finish suitable for renovating the facades of historic buildings
- Homogeneous, absorbent and seasoned lime-based or lime cement-based mineral substrates, properly seasoned

Main features

- Thick lime-based coating, with calibrated grain size of 0.75mm
- Highly breathable, it has marked characteristics of permeability to water vapour
- Excellent anchoring to the substrate and stability over time
- Chiaroscuro and halo effect
- Formula A+ for indoor emission

Main technical data

Technical information	Method	Main data at 20°C and 60% of R.H.
Theoretical consumption for two coats	ISO 7254	3.5 ÷ 4.5 kg / m²
Degree of transmission of liquid water (permeability)	UNI EN 1062-3	Class W1 High permeability
Resistance to water vapour diffusion	ISO 7783-2	Class V1
Reaction to fire	EN 13501-1	A2-s1, d0

Available colours White and other colours achievable with the tintometric system.

LAYING

Dilution and preparation of the product

The product is ready to use, mix properly with a mechanical mixer until it reaches the correct density.
Warning: as it is a lime product, it naturally tends to thicken; mixing is therefore recommended for proper applicability.

Application tools

Stainless steel trowel or spatula

Preparation of the substrate (external and internal)

NEW WALL SURFACES
Concrete, plasterboard and cement-based plasters: make sure that the substrate is perfectly seasoned; always apply at least one coat of MULTIQUARTZ base coat to regulate absorption and wait for it to dry completely. Alternatively, if greater adhesion is required, it will be possible to apply a coat of VIEROGRIP PLUS and wait 24h before applying the decorative 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.
In case of dusting and chalking of external surfaces, it is necessary to apply a coat of PRYMER SE consolidating solvent-based fixative or of PRYMER ACQ 100 high penetration water-based acrylic fixative, and wait 24h. Then proceed to apply the base paint which can be MULTIQUARTZ or VIEROGRIP PLUS depending on the uniformity and filling required and wait 24 hours before applying the decorative finish.
In case of dusting and chalking of internal surfaces, apply a coat of PRYMER ACQ water-based acrylic fixative and wait at least 6-8 h. Then proceed to apply the base paint which can be MULTIQUARTZ or VIEROGRIP PLUS depending on the uniformity and filling required and wait 24 hours before applying the decorative finish.

WALL SURFACES WITH LIME PLASTER OR CEMENT-LIME MORTAR
In case of dusting and chalking, it is necessary to apply a coat of SILICA FONDO SD; after 24h proceed to apply a coat of VIEROGRIP PLUS and wait at least another 24h before applying the decorative finish.
In the case of a cohesive and anchored mineral substrate, it will be sufficient to wet the surfaces with water and to proceed to apply the decorative finish.

Application system

Apply two coats of VXF with a stainless steel spatula 24 hours apart.
To obtain a plaster-like finish, finish off with a sponge float with circular movements.

To obtain a smooth and translucent finish, the second coat will need to be smoothed and compacted with a stainless steel spatula with rounded corners and rounded edge, inclined at 45°.
It is possible to protect and waterproof the surfaces immediately after the second coat of VXF 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.

- Dry in depth: 24 h
- seasoning takes 2-3 weeks (60-70% of lime)
- the complete seasoning process takes 8-12 months
- Overcoatability: after 12-24 hours

Application for "Concrete S effect"

To obtain the "Concrete S" effect, apply VXF with two coats. Smooth the first coat with a stainless steel trowel, once dry, moisten the support with water, and apply the second coat again with a stainless steel trowel with a thickness of about 3-4 mm. It is very important that the second coat is applied with the correct thickness.
Proceed immediately to work the fresh product with a wooden board (the dimensions are at the discretion of the applicator, a board of 100 cm x 15 cm with a thickness of 2-3 cm is recommended). The process consists in horizontally imprinting, as if it were a stamp, the table on the fresh product, thus creating the effect of the standard-sized wooden pieces of concrete castings.
Once dry (24 hours), apply VIXALIT 500 lime paint as indicated in the relevant technical data sheet to obtain the desired decorative effect.

"Moon Crater" effect application

To obtain the "Moon Crater" effect, apply VXF with two coats. Smooth the first coat with a stainless steel trowel, once dry, moisten the support with water, and apply the second coat by distributing the product unevenly with the trowel, spreading VXF randomly, trying to create buildups and product holes here and there, almost tearing the coating of the product itself from the substrate.
The most important precaution to obtain this design is to tilt the spatula towards the support during the skim phase, i.e. reducing the angle of inclination between the spatula and the support to be decorated, with the intent of crushing the product present on the spatula itself, rather than smoothing/spreading evenly.
Once VXF is completely dry, apply VIXALIT 500 lime paint as indicated in the relative technical data sheet to obtain the desired decorative effect.

Conditions of application

- Relative humidity of the environment: <75%
- Ambient temperature: min. +5°C / max. +35°C
- Substrate temperature min. +5°C / max. +35°C
- Apply on homogeneous substrates, complete the walls without stopping, avoid the recovery of material that is now dry
- Do not apply on substrates with rising damp

Practical advice

- Avoid application of the product in direct sun or on particularly windy days
- In the case of very large surfaces, provide for suitable interruptions near drainpipes or technical joints
- Store the product in its original container at a temperature between +5°C and +30°C
- Faint hues and shading of the colour (lighter and darker) are an aesthetic characteristic, typical of the product
- After application, the surfaces must be protected from driving rain for at least 48 hours
- 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
- New plasters must be left to age for at least 4÷6 weeks, to allow them to complete the natural carbonation process. Even brand new patches must be allowed to age perfectly
- As it is a natural product, the mixture may contain undercooked or not hydrated limestone fragments
- For a perfect homogenisation of the dye, prefer mixing with a spatula, then stir in the mixer for at least 10 minutes
- The product completes its drying and polymerisation processes within 8-10 days in optimal environmental conditions (5÷35°C; R.H. max. 75%). Should the product be washed away by rainwater during this time, unsightly dripping with a translucent and sticky 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 rain

Warnings

None

OTHER INFORMATION

Classification (UNI EN 1062-1)	G0 E5 S3 V1 W1 A0 C0
Classification (UNI EN 15824)	Specific for indoor and outdoor organic binder-based plasters. System of attestation of conformity 4. System 3 for reaction to fire.
VOC classification (Directive 2004/42/EC)	Matt paints for indoor walls and ceilings. EU VOC limit value for VXF (cat. A/a): 30 g/L (2010). VXF 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.
Appearance and finish		Matt
Density	ISO 2811-1	1.55÷1.65 g/ml
Brookfield viscosity	ASTM D 2196	36,000÷44,000 cps
Recommended thickness		0.8 mm per coat
Water vapour diffusion resistance factor (Sd) (film thickness 350 dry microns)	ISO 7783-2	0.05 m Class I (high according to EN 1062-1)
Diffusion of WDD water vapour	ISO 7783-2	>150 g/m2 in 24 h High
thermal conductivity	UNI EN 1745	λ10,dry=1,17 W/mK (P=50%) λ10,dry=1,28 W/mK (P=90%)
Flash point	UNI 8909	Non-flammable
Storage life (in a cool and dry place)	UNI 10154	At least 12 months

SECTION LEED

The VXF 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: Enviromental Product Declaration

EPD TYPE	PROGRAM OPERATOR	NUMBER
Standard	EPD International AB	EPD-IES-0016376:002

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 VXF, lime-based thick coating, with a calibrated grain size of 0.75mm, with a mineral plaster effect.
To be applied in two coats, VXF – with the colour chosen by the P.M. – it is applied with a stainless steel trowel on walls of a mineral nature that have never been painted or on walls already painted with mineral products or suitably prepared with a suitable primer. Indicative consumption for two coats 3.5÷4.5 Kg/ m².
Price on site € _____ per m² including materials, labour, and 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.

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