

Document type

Technical Data Sheet

Name	TRAVERTINO
Description	Natural, lime-based material for decorative finishes on interior and exterior wall surfaces. Naturally anti-mould and breathable. The final finish is textured, with pleasing chiaroscuro effects. It resembles the roman Travertine stone, from which it takes its name.
Composition	Aged, slaked lime and selected marble powders
Available versions	TRAVERTINO, TRAVERTINO WHITE
Grain size	1 mm
Appearance	Paste
Colour	The standard TRAVERTINO is a pale beige, while the WHITE version is white and can be coloured to any hue
Packaging	24 kg net polyethylene containers
Application	By hand, with a steel trowel
Type of Surface	Interior and exterior walls <u>New Wall Surface</u> Plaster: no priming necessary Gypsum / Plasterboard / Medium Density: one coat of QUARTZ PRIMER <u>Old Wall Surface</u> Plaster: one coat of QUARTZ PRIMER Fast drying / Limewash: brush down and apply one coat of QUARTZ PRIMER Polished Lime: Abrade, brush down and apply one coat of QUARTZ PRIMER Washable Paint: one coat of QUARTZ PRIMER
Dilution	Ready to use
Consumption	3,5 kg after two coats
Drying	4 hours at 20°C / 68°F to the touch 48 hours at 20°C / 68°F below the surface 180 days stable
Application temperatures	min 5 max 30°C – R.U. < 85% ca
Coat Thickness	1.9 – 2-2 mm for a total of 2 coats
VOC Classification	EU Directive 2004/42/CE: EU limit value for this product (cat A/I – water-based decorative effect coating): 200 g/l (2010) This product contains less than 1 g/l of VOC.
Specific Weight	1.4 ± 0.2 (kg/l)
pH after 30 days	12.5 ± 0.50
Vapour Permeability	SD ~ 0,04 m (DIN 52 615)
Flammability	European Class of Reaction to Fire A1: non combustible – no contribution to fire
Mould Resistance	ASTM D 3274 – “Standard Test Method to evaluate the degree of surface disfigurement of paint by microbial, fungal and algae growth. Result: Front Panel 10/10/10 Back Panel 10/10/10 = no growth

Scrub Test Resistance	ASTM D 2486-06 method A = was used: scrubbing fine sand + metallic brush for 10,000 cycles
Impact Test	UNI EN ISO 6272-2-2006. 1 kg doming punch was dropped from different heights and only at the height of 8 cm., it left a 5.5 mm. dent in the surface and a tiny crack appeared around its circumference.
Pencil Hardness	ASTM D3363- Pencil hardness 5H
Shore Hardness	Norm ASTM 2240 average
Adhesion	Norm UNI EN 13892-8 2004 average value = 2,0
Shelf life	36 months when stored according to the recommended guidelines
Storage	In original sealed packaging between 5° - 35°C in a dry, dark environment
Safety Norms	Irritating. / Risk of serious damage to eyes. / Irritating to the skin. / Keep out of children. / Avoid contact with eyes. / In case of contact with eyes, clean immediately with water without rubbing them, and consult a doctor. / Wear suitable gloves and eyes / face protection. / In case of ingestion of the products, consult immediately a doctor showing him the can or the label of the product. Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments. The product must be transported, used and stored according to current standards of hygiene and safety.
Disposal	Product must be disposed of according to norms and regulations in force. Containers must be sent for recycling. Follow directions on the packaging
Application Instructions	PREPARATION AND APPLICATION Mixing and colouring The presence of water on the surface of the material inside the container is normal. Pour off this water before mixing the product or adding the colourant. Travertino is supplied as a dense, ready-to-use product. Stir it with an electric mixer fitted with a suitable attachment until its viscosity is reduced and the material becomes workable. Avoid excessive mixing. Add the required colourant and continue mixing until a completely uniform shade is obtained. Allow the coloured product to rest for 5/6 hours before application. Lime-based products temporarily lose viscosity when mixed and gradually recover their density during the resting period. Use material from the same production batch on each uninterrupted surface. If different batches must be used, mix them together before application to minimise possible colour variations. For the correct preparation, dilution and use of any complementary products mentioned in these instructions, consult their respective technical data sheets. Application conditions During surface preparation, mixing and application, use suitable tools and the appropriate personal protective equipment (PPE). Apply at temperatures between 8°C and 35°C. During application and for the following 72 hours, protect the surface from water, direct sunlight and sudden changes in temperature. Do not work in excessively warm or humid conditions, as these may affect drying and application times.

For exterior applications, also protect the surface from rain, frost and strong wind during application and drying.

Lighting

Illuminate the wall with a strong light directed almost parallel to the surface and positioned on one side only, preferably on the same side as windows or other sources of natural light. The shadows cast by the trowel and surface texture make it easier to assess the finish during application.

If the lamp generates significant heat, move it periodically while applying the second and third coats to prevent any part of the wall from drying more quickly than the surrounding surface.

Suitable substrates

Travertino is suitable for interior and exterior application over stable, properly prepared substrates. It may also be applied to plasterboard or wood-based panels, provided that the substrate is correctly installed, sufficiently rigid and treated with an appropriate primer.

Preparation of the work area

Protect floors, skirting boards, windows and all adjacent surfaces. Travertino is alkaline and may permanently mark aluminium and certain types of wood.

Primer application

Apply one coat of QUARTZ PRIMER evenly by roller or brush and allow it to dry.

Application procedure

1. First coat

Apply a thin, uniform coat of Travertino over the entire surface using a metal trowel. Keep the coat even and avoid leaving pronounced ridges or excessive trowel marks. Allow it to dry completely. Before continuing, replace the masking tape around doors, windows, ceilings and adjoining surfaces to obtain clean edges.

2. Second coat

Apply the second coat evenly with a metal trowel. The edge of the blade must be perfectly smooth, clean and free from imperfections that could mark the surface. On large surfaces, or in warm and dry conditions, working in a team is recommended. One applicator can apply the second coat while the other follows with the final coat, which must be applied while the second coat is still damp.

3. Final coat and texturing

Apply the final coat and smooth it evenly, in a similar manner to a Marmorino finish. While the material is still fresh, scrape the surface using a spatula or the edge of the trowel held at approximately 90° to the wall.

Move the blade through the plaster using horizontal or vertical strokes, depending on the desired direction of the texture. Maintain the chosen direction consistently across the entire surface.

4. Smoothing

When the material begins to set, pass the trowel over the textured surface to flatten the raised areas while retaining the characteristic grooves and pores. Always work parallel to the direction of the texture.

Inspect the surface and repeat the scraping locally where more texture is required. Avoid excessive reworking, as this may close the pores or create an uneven finish.

Optional polishing

For a more polished appearance, compress and polish the smooth areas first with a clean metal trowel and then with a plastic trowel. Avoid excessively flattening or closing the textured areas.

ALTERNATIVE APPLICATIONS:

Travertino Romano Finish

This application creates the characteristic linear texture and colour variation of Roman travertine.

While the 2nd coat of Travertino is still wet, use a Brush Trowel or the flat edge of a spatula (held vertically at approx. a 90° angle to the wall) to create irregular horizontal grooves across the entire surface. Keep the tool almost parallel to the wall and drag it lightly through the material, varying the length, depth and spacing of the marks to reproduce the natural stratification of travertine.

After approximately 30 minutes, when the material begins to set, smooth and compress the surface with a clean trowel. This partially closes the grooves while leaving irregular cavities and open pores, creating the characteristic pitted appearance.

Once the Travertino is completely dry, apply Velatura in two coats:

First coat of Velatura

Tint Velatura in the same colour as the Travertino, but approximately three shades lighter. Add a small amount of white pigment to obtain a milky appearance. Alternatively, this coat may be applied colourless.

Dilute Velatura with water at a ratio of 1:2 and apply it generously over the entire surface using a wide brush. This coat reduces and evens out the absorbency of the Travertino before the decorative coat is applied. Allow it to dry completely.

Second coat of Velatura

Tint Velatura in the desired colour and dilute it with water at a ratio of 1:1. Apply it using a brush approximately 10 cm wide for greater control.

Work in irregular horizontal bands to reproduce the natural veining and stratification of travertine. Leave more Velatura in selected areas to create darker lines and tonal variations. Before it dries, use a damp sponge to remove or soften the excess where required, allowing the colour to remain mainly within the pores and recessed areas of the surface.

Travertino Toscano Finish

For this finish, apply the second coat in a relatively thick, even layer. The texture may be created horizontally or vertically; the following instructions describe the vertical application.

As the second coat begins to dry, draw the Brush Trowel vertically through the fresh plaster, working from top to bottom or vice versa to create irregular, parallel grooves. Continue across the entire surface, maintaining the same direction while allowing slight variations in the spacing and depth of the marks.

When the material begins to set, usually approximately 30 minutes after application, pass a clean trowel vertically over the surface to flatten the raised ridges without completely closing the grooves. Continue pressing and smoothing until the desired finish is obtained.

This technique is particularly effective with the Natural Travertine colour, as it emphasises the pitted texture created by the coloured marble grains.

Variation

Variations are possible by adding our Silver Mica Powder additive to get sparkling flakes into the plaster finish or by adding the Salt and Pepper Effect powder to get black dots which give a more "sense of stone" to the finish.

EXTERIORS

For exterior applications there are some rules to respect and some precautions to take. We remind you that carbonation, i.e. the process that takes place through the absorption of atmospheric CO₂, is completed in a few hours on the surface but takes several days to take place in depth. It is therefore important that the application takes place in the certainty of the absence of heavy rains in the three following days. It is also not recommended to apply it on walls that do not have at least a small roof overhang. Penetrating rain could ruin the finish even after weeks as deep carbonation is completed after more than a month. Avoid windy days, especially at high temperatures, as well as the risk of frost in the 48 hours following application. In external applications in hot climate conditions, it is also recommended to protect the wall from the sun with shade cloths applied to the scaffolding. Lime-based products must dry slowly to better fulfil their characteristics.

The application should be continuous and without linear breaks in the wall.

Finish Protection

Interiors: A protective treatment is optional in most circumstances. It is however necessary in bathroom, kitchen, and splashback walls.

Exteriors: This finish, as all lime-based plasters, absorbs water during rainy weather, which results in a temporary "wet effect" on the surface. However, this plaster releases the absorbed water within a few hours, allowing the surface to dry without any damage nor alteration to the finish. While a final treatment is therefore optional, it is highly recommended in areas with high pollution levels or if you wish to avoid the temporary wet effect that can occur after rainfall.

INTERIORS / EXTERIORS: after about 72 hours at least 20°C., proceed with the application of the colourless protective impregnation HYDROCALCE, especially designed for the protection of external lime-based coatings. Its Installation is done by brush in two coats, with a consumption of about 100-130 g/sqm.

Maintenance

Little maintenance is needed, brush off dust occasionally.

Tools

SI TROWEL, CORNER TROWEL, BRUSH TROWEL
Clean with water immediately after use

Decorative complements

MICA / TERRACOTTA / SALT & PEPPER / MILLED MARBLE / EBANO POWDER/

(optional)

VELATURA / METALLIC BEESWAX / PEARL CREAM

We have drawn up the material presented above to the best of our technical and experiential knowledge. Nevertheless, our suggestions and recommendations are not guaranteed. All responsibility for the obtained results lies solely with the method and conditions adopted for the application of the product. Such indications constitute valid support for verifying the product's suitability for the specific case. We reserve the right to make modifications to the present information without previous warning.