OIKOS
la pittura ecologica decorativa

TECHNICAL DATA SHEET
TRAVERTINO ROMANO

Technical Qualities

TRAVERTINO ROMANO by Oikos is a special, ready to use, decorative plaster created using sand, selected marble grains, travertine powder and slaked lime putty. The even paste is easy to apply and using the indicated application technique, it is possible to realise an effect, similar to that of natural stone, highlighting its veins and contours. One of the main characteristics of this product is that of bonding perfectly with the surface thus becoming a single body. TRAVERTINO ROMANO blocks the development of mould and bacteria. It has low odour level, is non inflammable and is friendly to both humans and the environment.

Ideal Use

Exterior and interior surfaces (the colours of Travertino Design are meant only for interior use).

Surface Preparation

Surfaces must be thoroughly dry and fully matured. New plaster must have matured for at least 30 days to allow the full carbonatation of the substrate. Clean the surface to be coated, removing any loose or flaking material. On old or powdering surfaces, it is recommended to apply a coat of the sealer NEOFIX by Oikos. On all other types of surface, apply a coat of IL PRIMER or BLANKOR by Oikos to even the level of surface absorption.

Application Method

Effect:"Monolitico": Spread TRAVERTINO ROMANO using an inox steel trowel by Oikos (art. 113), leaving a thickness of approximately 1,5÷2,0mm. Immediately proceed to work over the TRAVERTINO ROMANO with the indicated tampone (art. 133 by Oikos), in order to create irregular horizontal veins in the surface. Dab the remaining areas, using the same tool, in order to create crests of product over the surface. As soon as the product starts to dry, carry out a first smoothing over of the surface using the inox steel trowel, thus compacting the most obvious crests of material. When the product has dried sufficiently to allow it, repeat the smoothing over process applying even greater pressure to the trowel, in order to obtain

a smooth surface that has veins running across it that imitate the effect of travertino.

Effect "Spaccato": Apply TRAVERTINO ROMANO in the same way as for the Monolithic effect but creating diagonal veins running though the surface. Once dry, using a brush, apply a

single coat coat of OTTOCENTO diluted 10–20% with drinkable water over the entire surface, following the direction of the veins. When dry, it is possible to apply a second shade of OTTOCENTO undiluted, only in the veins, fading it and removing any material in excess with a clean sponge. In this phase, if necessary, it is possible to spray some water using a sprayer to facilitate application. Other shades of OTTOCENTO can also be used, applying the product undiluted with a synthetic sponge so as to increase the intensity of the colour in the finish.

Effect "Metropolitano": Apply TRAVERTINO ROMANO in the same way as for the previous effect creating diagonal veins across the surface. Once dry, apply OTTOCENTO undiluted using a synthetic sponge applying the product only on the flat, smooth areas and not in the veins.

Effect "Pietra Antica": After having realized the previously described finishes, it is possible to recreate the joints between the various stones. Cut the surface of the TRAVERTINO ROMANO using the corner of a Small spatula by Oikos art. 111 (or a screwdriver) thus obtaining blocks of the desired dimension. To cut a straight line, use a plank as a guide. Leave for at least 24 hours to dry before proceeding with the finish.

Effect: "Granato" Screed the wall with TRAVERTINO ROMANO without leaving too many imperfections. When dry, screed again evenly. Whilst the product is still moist scratch the surface with the corners on the back side of the trowel, then proceed to smooth the surface using the flat side of the trowel. Before the product is fully dry, repeat both the scratching and smoothing of the surface.

Effect: "Levigato" Screed the wall with TRAVERTINO ROMANO without leaving too many imperfections. Once dry, make one more fine screeding. As soon as the product starts to dry repeatedly smooth the surface with the flat side of the spatula.

Effect: "Cassero" Screed the surface with TRAVERTINO ROMANO. without leaving too many imperfections. When the product has dried, using masking tape, mark out a band approximately 10–13 cm wide. Using a trowel, apply TRAVERTINO ROMANO along the entire band, then immediately proceed to work over the surface using the tool Attrezzo Legnato

(art. 109) in order to create wood-like veins. As soon as the product starts to dry, smooth the surface using the flat side of the trowel. When completely dry, remove the tape and proceed to work on the next band. The application can also be made simultaneously on alternate bands.

In order to get a more compact effect we suggest to make TRAVERTINO ROMANO denser by using O-Addensante (1 50 ml bottle of O-Addensante for 20 kg of product).

Finish

- TRAVERTINO ROMANO Natural/White with Travertino Romano Finitura

To protect and keep the natural look of TRAVERTINO ROMANO Natural White , apply by brush, a coat of uncoloured, ready to use TRAVERTINO ROMANO FINITURA.

- TRAVERTINO ROMANO Natural/White with TONER (Tivoli, Biancospino and so on):

Apply by brush a coat of uncoloured, ready to use TRAVERTINO ROMANO FINITURA paying attention to spread the product only on the smooth areas of the surface and not inside the veins that have been created.

Wait until the first coat of finish is dry and then proceed to apply a second coat, applying by brush TRAVERTINO ROMANO FINITURA in the chosen colour, diluted 50% with water. Eliminate any excess product using a sponge until a light-dark effect is achieved on the surface caused by the differing absorption levels between the smooth areas and the veins in the surface.

To obtain the chosen shade from the colour chart,   mix 100 ml of TONER with 1lt of TRAVERTINO ROMANO FINITURA and shake thoroughly.

Attention: these finishes can be used only for the colour NATURAL WHITE, they **cannot** be used for the DESIGN shades **(Black, Red, Beige, Grey, Yellow) which are suitable only for interiors.**

Only for use in interiors:

- TRAVERTINO ROMANO with Ottocento

In order to have pearly veins it is possible to apply one or more shades of OTTOCENTO onto TRAVERTINO ROMANO following the instructions given in the section Application Method. The application is made by brush fading the product with a sponge.

- TRAVERTINO ROMANO DESIGN (Black, Red, Beige, Grey, Yellow, only for interiors)

The finish with OTTOCENTO can be made for the DESIGN shades. TRAVERTINO ROMANO FINITURA **SHOULD NOT** be used.

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Technical Characteristics: Application

Dilution:	Ready to use
Yield:	2 Kg/m² approx.
Application tools:	Inox steel trowel art. 111–113, Tampone Millerighe art. 133, Attrezzo Legnato art. 109
Fixative:	IL PRIMER, BLANKOR
Protective:	TRAVERTINO ROMANO FINITURA only for Natural White
Application temperature:	+10°C ÷ +36°C (with relative humidity not exceeding 80%)
Drying time until touch dry:	2–4 hours (temperature = 20°C with relative humidity at 75%)
Drying time until Washable:	30 days (temperature = 20°C with relative humidity at 75%)
Total drying time:	20 ÷ 25 days (temperature = 20°C with relative humidity at 75%)
Time until possible to paint over:	24 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning:	water
Warning:	In the event that the product appears to be very liquid, a thickening additive is available that can be added at the moment of using the product mixing it with a mixing drill

Technical Characteristics: Product

Composition:	Sand, selected marble grains, slaked lime putty
Specific weight:	1.65 kg/l +/– 3% (white)
Granulometry:	MAX= 0.8mm
pH:	12.5 ÷ 13.5
Viscosity:	paste
Storage temperature:	+2°C ÷ +36°C. (Keep from freezing)
Water absorption:	Class W1 (HIGH permeability) w = 0,639 kg/(m2h0,5) (EN 1062-3:2001)
Permeability to water vapour :	ClassV1 (HIGH permeability) Sd= 0,024 m (EN ISO 7783-2:2001)
Measurement of bond strength by pull-off:	fh = 0,5 MPA (min. fh > 0,3 MPA) (EN 1542:2000)
Durability:	fh = 0,9 MPA (min. fh > 0,3 MPA) (EN 13687–3:2003)
Thermal Conductivity::	$\lambda 10,dry= 1,28$ W/mK (P=90%) (EN 1745:2005)

Reaction to fire:	EUROCLASS A2-s1,d0 (EN 13501-1:2019)
CE Labelling:	Conforms (EN 15824:2009)
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE:	Classification: A/l; VOC: 08g/l (max); Limit Phase I (from 1.1.2007), 75 g/l Limit Phase II (from 1.1.2010): 40 g/l
Colours:	white + shades from the colour chart
Packaging:	Kg 5 – 20
Warning:	– avoid prolonged contact with the skin: if necessary, wash thoroughly with soap and water. If the irritation persists, consult a doctor. – Avoid contact with the eyes, in case of accidental contact, wash thoroughly with a sugar-water solution. If the irritation persists, consult a doctor.

Safety information

The product is free of heavy metals such as lead or chrome. It does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is classified as hazardous pursuant to the provisions set forth in the Regulations (CE) 1272/2008 (CLP) and subsequent amendments and supplements. For further information see the product Safety Data Sheet. Normal cautionary measures for the handling of water based paints are advised. No special arrangements are required for the storage, movement and transportation of the product; the containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc. etc. and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements

Specifications

Surfaces must be thoroughly dry and fully matured. New plaster must have matured for at least 30 days to allow the full carbonatation of the substrate. Clean the surface to be coated, removing any loose or flaking material. On old or powdering surfaces, it is recommended to apply a coat of the sealer NEOFIX by Oikos. On all other types of surface, apply a coat of IL PRIMER by Oikos or of BLANKOR by OIKOS. Apply a lime based decorative product such as TRAVERTINO ROMANO to realize the decorative effect .... All must be carried out in

accordance with the norms of application, at a cost of .... m² inclusive of materials and labour, except scaffolding.

Notes

The company Oikos Spa guarantees, to the best of its own technical and scientific knowledge, that the information contained in this technical data sheet is correct.
Notwithstanding that indicated above, Oikos takes no responsibility for the results obtained through the use of this product in as much as it is not possible for Oikos to check or control the application method used. For this reason, we recommend that you check carefully that each product chosen, is suitable for each individual use to which it is put.