

# TECHNICAL DATA SHEET

## TRAVERTINO ROMANO

### Technical Qualities

TRAVERTINO ROMANO by Oikos is a special, ready to use, decorative plaster for interiors and exteriors, created using sand, selected marble grains and slaked lime putty. The even paste is easy to apply and using the indicated technique, makes it possible to realise an effect that reproduces a natural stone finish that highlights 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.

### 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 NEOKRYLL by Oikos. On all other types of surface, apply a coat of BLANKOR by Oikos to even the level of surface absorption.

### Application Method

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 veins in the surface. Dab the remaining areas, using the same tool, in order to roughen the surface (like a bees nest). 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 obviously roughened areas. 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. To recreate the joints between the various stones, once the smoothing process has been concluded, cut the surface of the TRAVERTINO ROMANO using the corner of a Small spatula for Raffaello 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.

**Finish****TRAVERTINO ROMANO Natural/White:**

To consolidate the surface of TRAVERTINO ROMANO and make it less absorbent, apply by brush, a coat of uncoloured, ready to use TRAVERTINO ROMANO FINITURA.

**TRAVERTINO ROMANO with a coloured finish:**

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 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 of the 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.

**TRAVERTINO ROMANO COLOURED (Black, Red, Beige, Grey, Yellow – onlu for interiors):**

It does not need further coloured finishes.

**Technical Characteristics: Application**

<b>Dilution:</b>	Ready to use
<b>Yield:</b>	2 Kg/m <sup>2</sup>
<b>Application tools:</b>	Inox steel trowel art. 113, art. 133 and art. 111 by Oikos
<b>Fixative:</b>	NEOKRYLL by Oikos
<b>Base coat:</b>	BLANKOR by Oikos
<b>Protective:</b>	TRAVERTINO ROMANO FINITURA by Oikos
<b>Application temperature:</b>	+10°C ÷ +36°C (with relative humidity not exceeding 80%)
<b>Drying time until touch dry:</b>	2 h (temperature = 20°C with relative humidity at 75%)
<b>Drying time until Washable:</b>	30 days (temperature = 20°C with relative humidity at 75%)
<b>Total drying time:</b>	20 ÷ 25 days (temperature = 20°C with relative humidity at 75%)
<b>Time until possible to paint over:</b>	24 h (temperature = 20°C with relative humidity at 75%)
<b>Tools cleaning:</b>	water
<b>Warning:</b>	protect the surface from water in the first 48÷72 hours after application. In the event that the product appears to be very liquid, a thickening additive is available that can be added at the moment of mixing the product before use.

**Technical Characteristics: Product**

<b>Composition:</b>	sand, selected marble grains, slaked lime putty
<b>Specific weight:</b>	1.65 kg/l +/- 3%
<b>Granulometry:</b>	MAX= 0.8mm

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<b>pH:</b>	12.5 ÷ 13.5
<b>Viscosity:</b>	paste
<b>Storage temperature:</b>	+2°C ÷ +36°C. (Keep from freezing)
<b>Water absorption:</b>	EUROCLASS: W <sub>1</sub> (HIGH permeability) $w = 0,639 \text{ kg}/(\text{m}^2\text{h}^{0,5})$ (EN 1062-3:2001)
<b>Permeability to water vapour :</b>	EUROCLASS: V <sub>1</sub> (HIGH permeability) $S_d = 0,024 \text{ m}$ (EN ISO 7783-2:2001)
<b>Measurement of bond strength by pull-off:</b>	$f_h = 0,5 \text{ MPA}$ (min. $f_h > 0,3 \text{ MPA}$ ) (EN 1542:2000)
<b>Durability:</b>	$f_h = 0,9 \text{ MPA}$ (min. $f_h > 0,3 \text{ MPA}$ ) (EN 13687-3:2003)
<b>Thermal Conductivity:</b>	$\lambda_{10,\text{dry}} = 1,28 \text{ W/mK}$ (P=90%) (EN 1745:2005)
<b>Reaction to fire:</b>	EUROCLASS F (EN 13501:2009)
<b>CE Labelling:</b>	Conforms to (EN 13501:2009)
<b>Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE:</b>	Classification: A/l; VOC: 8g/l (max); Limit Phase I (from 1.1.2007), 75 g/l Limit Phase II (from 1.1.2010): 40 g/l
<b>Colours:</b>	white + 5 ready mixed colour (only for interior)
<b>Packaging:</b>	Kg 5 – 20
<b>Texture:</b>	Travertino
<b>Warning:</b>	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. Lime is a natural material with specific characteristics, the aesthetic effect and the duration of the product in exteriors is heavily influenced by environmental conditions and by the characteristics of the support.

## 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

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loose or flaking material. On old or powdering surfaces, it is recommended to apply a coat of the sealer CRILUX by Oikos. On all other types of surface, apply a coat of IL PRIMER by Oikos to even the level of surface absorption. Spread, using an inox steel trowel by Oikos, a coat of TRAVERTINO ROMANO and work the product according to the desired effect. Apply TRAVERTINO ROMANO FINITURA by Oikos to decorate and protect the surface. All must be carried out in accordance with the norms of application, at a cost of ..... m<sup>2</sup> inclusive of materials and labour, except scaffolding.

*The company Oikos S.r.l. 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.*