

Technical qualities

TIEPOLO OPACO is a mineral interior emulsion paint based on matured slaked lime with a smooth matt effect. One of its main features is to bind perfectly with the surface, maintaining the breathability of the wall structure favouring the release of interior moisture. Due to its high alkalinity, TIEPOLO OPACO has a bacteriostatic effect preventing the development of moulds and bacterial colonies. The product gives surfaces warm shades typical of old processes with an "antique effect" obtained with lime products. TIEPOLO OPACO is non-flammable, and environmentally friendly, development of moulds and bacterial colonies.

Application areas

Interior walls

Surface preparation

Surfaces must be dry and mature, new plaster must mature at least 30 days to allow complete carbonation. Carefully brush or strip the surface in order to remove the parts that are flaking; they must be eliminated for restoration works, water infiltrations or leakages. For best results we recommend direct application of the product on the existing lime plaster or lime paint after thorough washing and brushing. Only if absolutely necessary you can use CONSOLIDANTE CALCE (LIME CONSOLIDANT) by Oikos diluted appropriately, to consolidate very absorbent or crumbly surfaces. In interiors it is also possible to apply the product on surfaces previously treated with paint after making sure there is good adhesion. Slightly absorbent paint must be sanded to make it porous and promote adhesion, if this is not sufficient smooth the wall with RASATURA ALLA CALCE by Oikos

Application method

TIEPOLO OPACO finish: apply with a brush. First coat: dilute with 20 to 25% drinking water; second coat: after about 4 hours, dilute with 25 to 30% drinking water.

TIEPOLO AFFRESCO finish: apply a generous coat of TIEPOLO GESSATO to smooth, immediately dab the surface with the flat side of the spatula to raise the ridges. As soon as the ridges begin to dry, make scratches that are not too deep with Tampone Millerighe, then flatten and smooth the surface with the flat side of the spatula. After drying moisten the surface lightly using a spray, then whitewash with coloured TIEPOLO OPACO, diluted 15% with drinking water. Whitewashing is done by placing TIEPOLO OPACO on the Synthetic Sponge by Oikos, veiling the surface and avoid leaving too visible streaks.

TIEPOLO MATERICO finish: apply a coat of TIEPOLO GESSATO with a brush, diluted 5% with water, crossing the brush strokes. When dry, apply a second coat of the product using the same procedure. When the product begins to mature, smooth the surface energetically with the flat part of the Spatola Inox compacting and smoothing some areas, until the product is darkened. Once fully dry, apply a coat of coloured TIEPOLO OPACO, diluted 100% with drinking water, with a whi-

The product

Composition	Slaked lime, fillers, titanium dioxide, inorganic pigments based on iron oxides and coloured earth.
Specific weight	1.5 kg/l +/- 3% (White)
pH	12.5-13.5
Storage temperature	+2°C to +36°C. Protect from frost
Class of reaction to fire:	Negative when the product is applied on non inflammable bases; water material with a thickness of less than 0.600 mm dry
Sd water vapour permeability	0.043 m (max allowed limit 2 m, DIN 52 615)
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42 CE	Classification: A/a; VOC: 26 g/l Limit Phase II (from 1.1.2010): 30 g/l
Colours	Tiepolo Color Collection
Packaging	1 - 4 - 12 litres
Warnings	Lime is a natural product with specific characteristics, the aesthetic effect and the duration of the product are strongly influenced by environmental conditions and the surfaces characteristics.

Application

Dilution	20 to 30% with drinking water for TIEPOLO OPACO finish
Yield	TIEPOLO OPACO finish 5 to 8 sqm/l in two coats, according to surface absorption TIEPOLO MATERICO finish: TIEPOLO GESSATO 1.4 kg/sqm- TIEPOLO OPACO 10 sqm/l TIEPOLO AFFRESCO finish: TIEPOLO GESSATO 1.3 kg/sqm, TIEPOLO OPACO 7 sqm/l
Application tools	Brush, stainless steel spatula, Tampone Millerighe, Synthetic Sponge
Fixatives	CONSOLIDANTE CALCE by OIKOS.
Application temperature	+5°C to +36°C (with relative humidity not exceeding 80%)
Drying time to touch	1.30 hours (temperature = 20°C with relative humidity at 75%)
Total drying time	24 hours (temperature = 20°C with relative humidity at 75%)
Tool cleaning	Water

tewash brush with the help of a synthetic sponge to remove the marks of the brush strokes.

Safety information

The product contains no heavy metals such as lead or chrome. It contains no toxic solvents, aromatics or chlorides. No hazardous polymerisations have been verified. The product is classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments. For more information refer to the Safety Data Sheet. For storage and handling there are no special arrangements, the containers, residues and any spills are collected using absorbent inert materials such as sand, earth, etc. and are disposed of in accordance with national and regional current regulations. Transport must take place in accordance with international agreements

Technical qualities

TIEPOLO SATINATO is an acrylic wall enamel with a low environmental impact and a slightly satin effect, self-expanding, abrasion resistant. Thanks to its special composition, it ensures high coverage with less thickness, high yield, low dirt hold, resistance to alkali (ammonia and sodium solutions), alcohol and chemical detergents, easy to clean, it is ideal for public environments such as schools, hospitals, offices, etc. A high quality product tested as provided for by UNI 11021:2002 "Products and systems for painting areas where food is present."

Ideal use

Interior walls subject to heavy wear or dirt

Surface preparation

Clean the surface, removing any loose or flaking material. If surfaces are very absorbent or crumbly apply the specific acrylic fixative CRILUX or NEOFIX by OIKOS. Wait at least 6 hours before painting. To increase coverage of the cycle use as primer IL PIGMENTATO by OIKOS. If the decoration requires a smooth finish, use SMOOTHING STUCCO PASTE by OIKOS.

Application method

Apply two coats of TIEPOLO SATINATO 4 to 6 hours apart, diluting both coats with 20 to 25% drinking water. TIEPOLO SATINATO can be applied by brush, roller or spray gun.

Safety information

The product contains no heavy metals such as lead or chrome. It contains no toxic solvents, aromatics or chlorides. No hazardous polymerisations have been verified. The product is not a dangerous substance if used in the technically correct manner. Normal cautionary measures for the handling of water based paints are recommended. For storage and handling there are no special instructions; the containers, residues and any spills are collected using absorbent inert materials such as sand, earth, etc. and are to be disposed of in accordance with national or regional current regulations. Transport must take place in accordance with international agreements.

The product

Composition	Acrylic resins in water dispersion, organic and inorganic pigments, and additives aimed at helping application and film formation.
Specific weight	1.37 kg/l +/- 3% (White)
pH	8 to 9.5
Viscosity	10,000 to 20,000 cps Brookfield (RVT 20 revs/min. at 25°C)
Storage temperature	+2°C to +36°C. Protect from frost
Reaction to fire:	Negative when the product is applied on a non inflammable base; water based material with a thickness of less than 0.600 mm dry
Water vapour permeability Sd	0.04 m (UNI EN ISO 7783-2:2001)
Resistance to washing	Class 1 (UNI EN ISO 11998:2006)
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42 CE	Classification: A/a; VOC: 28 g/l, Limit Phase II (from 1.1.2010):
Colours	Tiepolo Color Collection
Packaging	1 - 4 - 12 litres

Application

Dilution	20 to 25%, with drinking water
Yield	9 to 11 m ² /l in two coats
Application tools	Brush, roller or spray gun (1.7 mm nozzle)
Fixatives	CRILUX, NEOFIX, IL PIGMENTATO by OIKOS
Application temperature	+5°C to +36°C (with relative humidity not exceeding 80%)
Drying time to touch	1 to 1.30 hours (temperature = 20°C with relative humidity at 75%)
Total drying time	4 days (temperature = 20°C with relative humidity at 75%)
Tool cleaning	Water

Oikos Srl guarantees that the information contained in this technical data sheet is correct to the best of its technical and scientific knowledge. Despite the above, Oikos is not responsible for the results obtained through the use of its product in that the manners of application are beyond its control and/or verification. Therefore, we recommend checking the suitability of each product to the specific case.

Technical qualities

TIEPOLO GESSATO is a decorative finish for coloured interiors, breathable, based on slaked lime. The product quickly and easily gives decorative effects similar to traditional "marmorino" effects. One of the main characteristics of the product creates a stable link with the surface, while maintaining the breathability of the wall structure and preventing the development of moulds and bacterial colonies.

Application areas

Interior walls

Surface preparation

Surfaces must be dry and mature, new plaster must mature at least 30 days to allow complete carbonation. Carefully brush or strip the surface in order to remove the parts that are flaking; they must be eliminated for restoration works, water infiltrations or leakages. For best results we recommend direct application of the product on the existing lime plaster or lime paint after thorough washing and brushing. Only if absolutely necessary you can use CONSOLIDANTE CALCE (LIME CONSOLIDANT) by Oikos diluted appropriately, to consolidate very absorbent or crumbly surfaces. On low absorbent or very smooth paints they must be sanded to make them porous and promote adhesion, if necessary you can apply IL PRIMER by Oikos

Application method

TIEPOLO GESSATO finish: The application must be done with two coats, about 7-8 hours apart, using a stainless steel trowel by OIKOS and smoothing the walls completely.

TIEPOLO AFFRESCO finish: apply a generous coat of TIEPOLO GESSATO to smooth, immediately dab the surface with the flat side of the spatula to raise the ridges. As soon as the ridges begin to dry, make scratches that are not too deep with Tampone Millerighe, then flatten and smooth the surface with the flat side of the spatula. After drying moisten the surface lightly using a spray, then whitewash with coloured TIEPOLO OPACO, diluted 15% with drinking water. Whitewashing is done by placing TIEPOLO OPACO on the Synthetic Sponge by Oikos, veiling the surface and avoid leaving too visible streaks.

TIEPOLO MATERICO finish: apply a coat of TIEPOLO GESSATO with a brush, diluted 5% with water, crossing the brush strokes. When dry, apply a second coat of the product using the same procedure. When the product begins to mature, smooth the surface energetically with the flat part of the Spatola Inox compacting and smoothing some areas, until the product is darkened. Once fully dry, apply a coat of coloured TIEPOLO OPACO, diluted 100% with drinking water, with a whitewash brush with the help of a synthetic sponge to remove the marks of the brush strokes.

The product

Composition	Slaked lime, selected marble granules, fillers, titanium dioxide, inorganic pigments based on iron oxides and coloured earth
Specific weight	1.5 kg/l +/- 3%
pH	12.5÷13.5
Storage temperature	+2° C to +36°C. Protect from frost
Water absorption	W2 class (Medium Permeability) w = 0,42kg/(m2 h 0.5) (EN 1062-3:2001)
Water vapour permeability	ClasseV1 (High Permeability) Sd=0.08 m (EN ISO 7783-2:2001)
Adhesion by direct traction	fh = 0.7 MPa (min. Fh> 0.3 MPA) (EN 1542:2000)
Durability	fh = 0.7 MPa (min. Fh> 0.3 MPA) (EN 13687-3:2003)
Thermal conductivity	λ10,dry = 1.28 W/mK (P = 90%) (EN 1745:2005)
Reaction to fire	Euroclass B-s1,d0 (EN 13501:2009)
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42 CE	Classification: A/a; VOC: 14 g/l Limit Phase II (from 1.1.2010): 30 g/l
Colours	Tiepolo Color Collection
Packaging	1 kg - 5 - 15

Application

Dilution	Ready to use
Yield	TIEPOLO GESSATO finish: 1-1.5 kg/sqm in two coats, depending on the absorption of the surface and the process chosen. TIEPOLO MATERICO finish: TIEPOLO GESSATO 1.4 kg/sqm- TIEPOLO OPACO 10 sqm/lt TIEPOLO AFFRESCO finish: TIEPOLO GESSATO 1.3 kg/sqm - TIEPOLO OPACO 7 sqm/lt
Application tools	Stainless steel trowel by OIKOS
Fixatives	CONSOLIDANT LIME by OIKOS
Primers	THE PRIMER by OIKOS
Application temperature	+5°C to +36°C (with relative humidity not exceeding 80%)
Drying time to touch	2.30 hours (temperature = 20°C with relative humidity at 75%)
Total drying time	24 hours (temperature = 20°C with relative humidity at 75%)
Tool cleaning	Water

Safety information

The product contains no heavy metals such as lead or chrome. It contains no toxic solvents, aromatics or chlorides. Hazardous polymerisation does not occur. The product is classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments. For more information refer to the Safety Data Sheet. For storage and handling there are no special arrangements, the containers, residues and any spills are collected using absorbent inert materials such as sand, earth, etc. and are disposed of in accordance with national and regional current regulations. Transport must take place in accordance with international agreements.