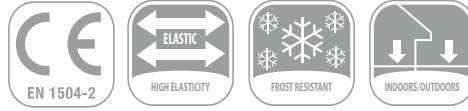




Raso CLS 05

Thixotropic hydrophobic smoothing plaster for civil plaster finishing of concrete and render, thickness from 1 to 10 mm and indoor and outdoor application.



Fields of application:

- as smoothing plaster for concretes demolded from formworks in wood or metal;
- as smoothing plaster on pre-compressed concrete;
- as smoothing plaster on new or cured traditional renders;
- as smoothing plaster on new or cured pre-mixed renders;

- as smoothing plaster for the following application of adhesives for floor and wall tiles;
- professional use only.

Characteristics:

Raso CLS 05 is made of selected aggregates, 52.5 cement in class I, fluidizing polymers and setting adjusters able to guarantee a perfect adhesion on surfaces in concrete or render. **Raso CLS 05** is formulated to ensure a long application time, eliminating every shrinkage. This product is indicated for indoor and outdoor civil, commercial and industrial applications.

Application:

Raso CLS 05 must be mixed with 5.5 l of water every 25 kg bag with a low speed stirrer, till getting a smooth mixture free of lumps. Do not add other hydraulic binders or aggregates. Apply **Raso CLS 05** with American trowel in as many coats as necessary. When the plastic phase has ended, the surface can be float finished with trowel sponge or pressed with American trowel.

Quality and Environmental Standards:

Raso CLS 05 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force-UNI EN ISO 9001/2015.

CE	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy
DOP-IT-01-047 RASO CLS 05 EN 1504-2:2004	
Coating for the surface protection of concrete by controlling humidity and increasing resistivity.	
Fire reaction: Class A1	
Vapor permeability: Class I	
Capillary absorption and water permeability: < 0.1 kg * m ⁻² * h ^{-0.5}	
Direct tensile adhesion: ≥ 2.0 N/mm ²	
Release of harmful substances: See Safety data sheet	

Characteristics	Application methods	Consumption
One-component High workability High mechanical resistance Hydrophobic or water-repellent For indoor and outdoor application White granulometry: 0.5 mm Grey granulometry: 0.5 mm	Trowel	1.6 kg/m ² every mm of thickness
		Storage
		Shelf life of 12 months in the original packages and in a fresh, dry place

Code	Product	Form and color	Packages	Pallet
431025	Raso CLS 05	Grey powder	25 kg	1500 kg
432025	Raso CLS 05	White powder	25 kg	1500 kg

Warning:

- do not use on friable and dusty supports;
- do not use on plaster supports (use **Primer GS** beforehand);
- do not use on painted supports;
- do not use on substrates that are too absorbent (use **Primer GS** beforehand);
- do not use on irregular surfaces more than 10 mm;
- do not apply **Raso CLS 05** with strong wind and / or full sun and protect the surface from rapid drying;
- do not apply **Raso CLS 05** on frozen or frost free substrates following 24 hours;
- do not apply on dehumidified plasters;


Technical and application specifications

Hazard classification as per Directive 99/45/EC:	grey: irritant - white: none
Mixing water:	22-25% (approx 5.5 L per 25 kg bag)
Specific weight of mixture:	1.60 g/cm³
Pot duration:	approx 60 minutes
Application temperature:	from +5°C to +35°C
Waiting time for coating:	28 days
Waiting time for coating 2' layer:	approx 60 minutes
Waiting time for tearing:	3 days
Maximum thickness per layer:	3 mm
Maximum total thickness:	10 mm

FINAL PERFORMANCE SPECIFICATIONS

Compression resistance after 28 days:	25 N/mm²
Flexion resistance after 28 days:	6,0 N/mm²
Permeability to CO ₂ :	SD > 50m
Water vapor permeability:	I SD < 5m W0 class
Capillary absorption and water permeability:	W < 0.1 kg/m² h^{0.5}
Thermal compatibility - Part I	≥ 1.0 N/mm²
Thermal conductivity (val. tab. EN 1745:2002):	λ = 0.52 W/mk
Adherent force for direct traction:	≥ 1.00 N/mm²
Reaction to fire:	Euro A1 class
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.