



Cement-based fiber-reinforced and waterproofed skimming

Cement-based fiber-reinforced and waterproofed civil skimming, suitable for non-absorbent surfaces, formulated with selected aggregates, resins and specific additives, such as to give it an excellent workability.



Technical characteristics

RASACEM TOP is classified according to the european standard EN 998-1 as GP (mortar for general plaster for indoor and outdoor use) category CSIV with very low water absorption (W2)

RASACEM TOP is classified according to the european standard EN 1504-2 as C (coating) for the protection of concrete surfaces according to the principles PI (protection against the risk of penetration), MC (moisture control) and IR (increase of the resistivity by limiting moisture content)

Appearance	White or grey powder
Specific weight of the dust	≈ 1200 kg/m ³
Particle size	≤ 0,8 mm
Duration of mixing	≈ 6 h
Specific weight of fresh mortar	≈ 1550 kg/m ³
Specific weight of dry mortar	≈ 1350 kg/m ³
FINAL PERFORMANCES ACCORDING TO EN 1504-2	
Adhesion on CLS	≥ 1,0 N/mm ²
Coefficient of water absorption by capillarity	≤ 0,1 kg·m ⁻² ·h ^{-0,5}
Vapour permeability	S _d < 5 m
Permeability to CO₂	S _d > 50 m
FINAL PERFORMANCES ACCORDING TO EN 998-1	
Compression strength	≥ 20 N/mm ² (CSIV)
Bending strength	≥ 7,0 N/mm ²
Adhesion to support (concrete)	≥ 1,0 N/mm ²
Adhesion to the support (CEMIX)	≥ 0,4 N/mm ²
Coefficient of water absorption by capillarity	≤ 0,2 kg/m ² ·min ^{0,5} (W2)
Thermal conductivity	λ _{10,dry} (P=50%) = 0,43 W/m·k(val. tab.)
Resistance factor to vapour	μ = 9
Reaction to fire	Class A1
Consumption	≈ 1.1 kg/m ² per mm of thickness
Paste water	≈ 22% (≈ 5.5 l per 25 kg bag)
Data are expressed at 22±1°C with relative humidity at 50±5%. Lower temperatures extend the maturation time and curing; higher temperatures reduce the time of maturation and hardening.	

Conforming to Reg. 1907/2006 (Reach). XVII point 47

Use

Realization of medium civil finishing skimming for irregular, non-absorbent surfaces up to 5 mm thick. Suitable for the coverage of mosaics, ceramic tiles in general and plastic coatings. RASACEM TOP is also used as a protective skimming against carbonatation of the concrete. For indoor and outdoor use.

Shelf life

In order to maintain the characteristics of the product, keep the bags in covered dry place and on wood pallets. The effectiveness of the performance characteristics in the intact packaging is 6 months for the grey version, 12 months for the white one.

Application

Preparation of the supports:

- make sure that the surface is clean, durable, evenly absorbent, free of any inconsistency or peeling;
- in the case of new plaster: wait for a day for each mm of thickness before proceeding with the skimming;
- remove the dust caused by scraping made on the plaster through mechanical application;
- in the case of seasoned plaster: before skimming, moisten the support letting the excessive water evaporate;
- highly absorbent supports must be treated with VIPRIMER approx. 2 hours prior to the application of RASACEM TOP.

Preparation of the paste - hand or mixer:

- in a case put clean water in order to knead the amount of dust expected;
- add continuously the powder and mix until you get the desired consistency;
- make the paste rest for at least 10 minutes, mixing it before use.

RASACEM TOP can be kneaded by hand or with a drill fitted with whip at low speed.

RASACEM TOP is applied with spatula in two coats spaced about two hours from each other (in function of the climatic conditions and the characteristics of the substrate).

After drying, humidify and work with trowel and sponge, to get a civil appearance.

After the seasoning of the RASACEM TOP (approx. 28 days) you can perform the decorative coating after the application of a suitable primer.

Warnings

Use the product at temperatures between +5°C and +35°C.

Avoid applying the product in the presence of strong wind or in full sun.

Protect the product from frost, rain in the 48 hours following the application.

In the realization of the mixture, use clean water.

Maximum thickness 5 mm. In more coats.

Do not add foreign materials to the mixture of RASACEM TOP.

In the case of inhomogeneous supports or in the presence of discontinuities (e.g. beams, columns, insulation panels in contact with masonry infills) it is advisable to insert a glass fiber net between first and second coat.

Item specifications

Supply and installation of cement-based fibre-reinforced waterproofed skimming, high-grip for the final layer, suitable for non-absorbent surfaces, for indoor and outdoor use, RASACEM TOP with cement, selected aggregates, resins and specific additives, with CE marking according to EN 998-1 class GP-CSIV-W2), and according to the European standard EN 1504-2 (type C, principles PI-MC-IR). The product must exert a resistance to compression after 28 days greater than 20 N/mm², a flexural strength after 28 days greater than 7 N/mm² and an adhesion under direct traction greater than 1 N/mm². The product must be applied using a spatula in two coats spaced about two hours from each other, as to obtain the flatness of the surface.

After drying, humidify and work with trowel and sponge to achieve a civil appearance.

The skim coat should have a thickness of about....mm

"The technical data in this document are indicative and related to the average values of production. SICILGESSO reserves the right to make, at any time, any changes and variations, as it deems appropriate. Always refer to the latest updated version of the technical data sheet, available on the website www.sicilgesso.it