



CONCRESEAL[®] TOP



SINGLE LAYER MORTAR FOR FAÇADE COATING

DESCRIPTION

Waterproof coloured cement based mortar with good adhesion, for the protection and decoration of façades. available in three different types depending on the final finish.

CONCRESEAL TOP – P:

Pebble dash / Spar finish

CONCRESEAL TOP – R:

Scraped / Stucco finish

CONCRESEAL TOP – F:

Sponge float finish

USES

Waterproof and decorative finish of façades and exterior walls.



ADVANTAGES

- Waterproof to rain and permeable to water vapour.
- Good adhesion over traditional substrates, such as brick, concrete blocks, concrete or cement renders.

- Economical. Provides important savings in man hours and materials when compared with the usual render plus paint solution.
- Its industrialised manufacturing guarantees stable colour, waterproofing and mechanical characteristics, assuring constant quality.
- Allows endless possibilities for the craftsman for modulating or piecing of the façade, improving its final appearance.

APPLICATION INSTRUCTIONS

Preparation of the surface

The substrate over which **CONCRESEAL® TOP** is applied must be resistant, having reached the necessary maturity to ensure its stability concerning retraction, settling, movements, etc.

Prior to the application the area must be completely cleaned to ensure the elimination of dirt, form stripping oils, grease, paints, etc. It is desirable to have an even surface, removing excesses, filling in voids and cracks, by spreading a levelling layer, in order to avoid excessive thickness, which apart from uneconomical, may present cracking due to retraction or shades in colour.

When the surface is very smooth, it is advisable to give it a certain roughness by chipping or scraping it in order to improve adhesion. A bonding agent such as **MAXBOND®** (Technical Bulletin nº 10) can also be used.

The surface to be coated must not be too dry. With hot weather or if the substrate is very absorbent, dampen prior to application without leaving excess water and wait until it is absorbed.

Modulation of the façade. Place on the surface wood, aluminium or PVC battens. These will perform the double job of guides for the placing and levelling of the mortar, and will provide, once they are removed, the modulation of the façade. Apply a strip of **CONCRESEAL® TOP** of no less than 5 mm thick, and before the product hardens, place and level the battens previously cut to the length required.

Application in critical areas. It is advisable to reinforce **CONCRESEAL® TOP** in all structural

joints, joints between different construction materials such as concrete-brick, lintels, decks, boxes for venetian blinds, rounded shapes, etc., to prevent cracking caused by tensions in these areas.

For this purpose, apply a layer of **CONCRESEAL® TOP** approximately half the final thickness and place while fresh a glass fibre mesh 10 x 10 mm. The mesh should cover at least 20 cm on either side of the critical area to be covered.

Mixing and application

The mixing can be done either by hand or mechanically in order to obtain better homogeneity. Keep a constant proportion of water per bag. Not following this rule may cause differences in colour on the coated surface.

Mix with the quantities of clean water per 25 kg bag shown in the table below.

	Manually	Mechanically
CONCRESEAL TOP – P	7 – 8 lt.	6,5 – 7,5 lt.
CONCRESEAL TOP – R	5 – 6 lt.	4,5 – 5,5 lt.
CONCRESEAL TOP – F	4,5 – 5.5 lt.	4 – 5 lt.

Mix for 5 minutes until obtaining a homogeneous mortar. Allow to settle for 10 minutes and apply manually with a trowel or spray with an appropriate machine. Once mixed the time available for placing and levelling is approximately one hour.

CONCRESEAL TOP – P Spread the mortar over the substrate in a thickness between 10 and 12 mm. Level and smooth it. Between 10 and 30 minutes later, spray the marble chips over the mortar. When the it starts to harden, flatten the surface with a trowel.

CONCRESEAL TOP – R Spread the mortar over the substrate in a thickness between 10 to 15 mm. Level and smooth it. When the mortar starts to harden (between 3 and 12 hours depending on the atmospheric conditions), it is scraped with a scraping trowel, wire brush, saw blade, etc. Once the mortar is dry it is brushed to remove dust and loose particles.

CONCRESEAL TOP – F Spread the mortar over the substrate in a thickness between 10 to 15 mm. Level and smooth it. When the mortar

starts to harden (between 1 and 3 hours, depending on the atmospheric conditions) it is finished with a sponge, wood or plastic float, etc.

CAUTIONS

Do not apply when there is risk of rain or frost.

Do not apply over gypsum or over substrates with poor adhesion.

Do not apply at ambient temperatures below 5°C or above 35°C measured on the substrate.

When applying above 35°C the following precautions should be taken:

- Wet the substrate prior to the application of **CONCRESEAL® TOP**.

- Spray water on the mortar applied, at the end of the working day and always before 24 hours pass after the application.

Low temperatures, frost, rain or humid conditions can produce carbonation processes on **CONCRESEAL® TOP** which appear on the surface as lighter coloured salts, between the second and the tenth day after the application. If they appear, removal may be attempted by washing with acid water, (one part of chlorhydric acid and ten parts of water) rinsing abundantly with clean water.

CONCRESEAL® TOP is not a toxic product in its composition, but as any other cement based product, for its application the usual recommendations for these type of products should be followed.

PACKAGING

25 kg bags.

COLOURS

Available in 8 colours as seen in colour charts.

STORAGE

12 months in its original closed container, in a dry covered place, protected from frost.

TECHNICAL DATA

	“P”	“R”	“F”
Aggregate size (maximum) (mm)	1,0	1,2	1,2
Mixing water (% weight per product)	28 ± 2	20 ± 2	20 ± 2
Thixotropy	Good	Good	Good
Pot life (minutes, 20 °C)	60	60	60
Flexural strength (kg/cm ²) 28 days	29	41	26
Compression strength (kg/cm ²) 28 days	98	105	100
Retraction (0/00) a 28 days	1,1	0,3	1,1
Density of the powder (gr/cm ³)	1,150 ± 0,050	1,400 ± 0,050	1,450 ± 0,050
Density of the fresh mortar (gr/cm ³)	1,600 ± 0,050	1,750 ± 0,050	1,800 ± 0,050
Density of the set mortar (gr/cm ³)	1,450 ± 0,050	1,600 ± 0,050	1,650 ± 0,050
Coverage (kg / m ² / mm esp.)	1,25	1,4	1,5
Capillarity coefficient C	1,1	0,9	1,0
Permeability to water vapour (gr / m ² h mm / Hg)	0,50 ± 0,05	0,47 ± 0,05	0,49 ± 0,05
Adhesion (kg / cm ²)	6,0	7,4	5,0

DIT approval for CONCRESEAL TOP – R, number 345 by Instituto Eduardo Torroja, dated October 23rd, 2000

GUARANTEE

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