



STONECEM®



STONECEM® FLOOR Printed concrete

STONECEM® FLOOR by Topciment® is a decorative mortar for the application of printed concrete, both indoors and outdoors. application of printed concrete, both indoors and outdoors. As hardener or wearing course in new printed concrete pavements.

It is especially recommended for textured finishes in the renovation of printed concrete, natural stone, concrete pavements, facades, etc.

Properties

- Excellent mechanical properties and high resistance to abrasion.
- It is resistant to weathering, UV radiation and easy to apply.
- It can be walked on, both in indoor and outdoor pavements.
- Given its mineral character, it is a highly breathable and fireproof product.
- It has a matte finish and a non-slip texture.
- High quality finishes, durability and easy maintenance.
- Available in a wide range of colors.
- It is applied directly on fresh concrete. As a release agent use our DESMOCEM® LIQUID or DESMOCEM® POWDER. Moldable in more than 100 different finishes and textures with our IMACEM® molds.

Uses and fields of application

STONECEM® FLOOR is particularly suitable for the application of high performance printed concrete pavements both in interiors and exteriors.

Among its recommended uses are:

- Areas of intense traffic, both vehicular and pedestrian.
- In sidewalks, walkways, corridors, bicycle and pedestrian lanes, common areas, swimming pools, parking lots, porches, terraces and in general wherever a high performance pavement is required and with unequalled decorative finishes.
- In campsites, shopping centers, parking lots, sports areas, housing, urbanizations, hotels, restaurants, hospitals, parks, patios, etc.

Not recommended on surfaces already painted with other systems (plastic paints, epoxies, polyurethanes, varnishes, etc.). In this case it is recommended to remove the previous coating.

Consumption

Approximate consumption:

- 4 kgs for dark colours 6 kgs for light colours.

Technical Data

- STONECEM® color range: Noir, Antracita, Pizarra, Cemento, Ardois, Acier, Zinc, Pewter, Nogal, Tabac, Oliva, Tostado, Jaune, Crema, Pierre, Ton Pierre, Blanco, Corcho, Tierra, Mares, Mapplewood, Canela y Verde. Finish: Mineral

- Apparent density: $1,8 \pm 0,2 \text{ g/cm}^3$
- Application temperature: $>5^\circ\text{C}$ and $<30^\circ\text{C}$
- Total cure: 7 days
- Slip resistance: R3
- Compressive strength (UNE EN 13892-2): $\geq 60 \text{ Mpa}$
- Flexural strength (UNE EN 13892-2): $\geq 9 \text{ Mpa}$
- Abrasion resistance (UNE EN 12808-2): 24h

Conforms to EN 13813:2014 standard.

Characteristics

Mortar based on selected aggregates, portland cement and high performance additives.

Preparation of the substrate

The application substrate must be a reinforced concrete slab or slab on grade, according to project specifications of project and normative of obligatory fulfillment.

Pouring of the mortar, compacting the substrate to 98%, placement of perimeter foam tape (PE-F) in all the perimeter joints and in the fixed elements, placement of the polyethylene mesh, gauge 300/400 and steel mesh 15x15x5. Add to the concrete polypropylene fiber, 600 gr/m³ bag. Pouring and leveling of the concrete, regulation and passing of the roller for the roller for the compaction and bleeding of the concrete. The plant concrete must have a minimum resistance of class C30/35 to C40/50, with minimum portland cement CEM II 42.5.

The slump in the cone type S3. It is recommended to add 1 dose of Polypropylene fiber per m³ of concrete (contributes to prevent cracking).

Application

Once the exudation water has evaporated from the concrete, sprinkle STONECEM® at a rate from 4 Kg/m² for dark colors up to 6 Kg/m² for light colors. Apply 2/3 of the specified amount and introduce the material into the concrete with the standard concrete using the standard trowel.

Then, apply the rest of the product and re-drill it until the desired surface is reached. Subsequently, proceed to smooth the surface, by means of steel trowel, until reaching a surface without porosities and homogeneous. Go over the edges of the pavement with an edging trowel, to avoid any type of chipping.

Once the mortar has set, check that the surface is firm but not hard and that it is free of water. Next, apply the powdered release agent DESMOCEM® POWDER, at a rate of 100 g/m², or impregnate the surface of the mold with the release agent DESMOCEM® LIQUID at a rate of 125 mL/m², as well as the entire surface to be molded. It is advisable to use powdered release agent, except for inclined surfaces and/or interior areas.

Once the release agent has been applied, the surface is stamped by means of the application of IMACEM® molds according to the chosen finish. In the case of liquid release agent is used, the molds must be completely clean and previously impregnated.

Mold placement should be consecutive and follow the continuity of the parts. Then, step on it with your feet or with our PISON until it is completely stamped and remove the mold.

If the expansion joints have not been foreseen initially, make the cuts according to the project and always within 24 hours, from its setting in work.

After at least 72 hours, the release agent for the printed material should be removed. If we have used DESMOCEM® POWDER, we will proceed with the cleaning of the surface with a pressure washer, with an approximate pressure of 90 bar, applying the water gun at a prudential distance of 50 cm. and nozzle in fan position. We will never apply a direct water jet on the surface. In case of using DESMOCEM DESMOCEM® LIQUID is used, clean by sweeping the surface until its complete removal.

If it is desired, we can apply our OXICEM® CONCRETE system following the indications of the product, giving it a decorative finish. After using the tools, they should be cleaned immediately with water.

After complete drying, protect the surface with any of our SEALCEM® WT or SEALCEM® DSV curing resins. Apply at least two coats of the sealer.

The resin should be applied by airless, brush or roller. Allow the resin to dry and harden for 3 days before use. Do not leave excess or surplus product. The application must be done at ambient and substrate temperatures between 5°C and 30°C, without excessive wind. To guarantee a good absorption the support must be dry, since the presence of humidity in excess can prevent the correct excess humidity can prevent the correct penetration of the product.

Special precautions

Powdered product. In case of contact with eyes, rinse with plenty of water for 15 minutes and seek medical attention. In case of contact with skin wash with soap and water. Never use solvents or thinners. Do not swallow. In case of ingestion do not induce vomiting and seek medical attention immediately.

It is recommended to comply with the following measures:

- Good ventilation.
- Use of dust mask FFP2 or FFP3.
- Protective goggles to avoid splashing.
- Rubber gloves.

Empty containers should be disposed of in accordance with current legal regulations. To prevent the product from drying out or thickening close the cap after each use. Keep out of reach of children.

Packaging

It comes in 25 kg bags or buckets.

Cleaning of the tools

The tools should be washed with water immediately after use, allowing the product to dry.

Storage conditions

The product should be stored in its original closed container and protected from the weather at temperatures between 10°C and 30°C in a dry and well-ventilated place, away from sources of heat and direct sunlight. The shelf life is 1 year from the date of manufacture, properly stored.



The product must not be used for purposes other than those specified, without first having the product instruction in its handling. It is always the responsibility of the user to take appropriate measures in order to comply with legal requirements. The Safety Data Sheets of the product are available to the professional.

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