

DATA SHEET

Béton imprimé / Stamped Beton

Description

Harmony stamped beton is a powder which is comprised of a hardener, a mixture of graded silica sands, cement, admixtures and pigments, used for the production of embossed concrete or imprinted concrete using moulds.

This product exists in two different particle sizes (0/2mm and 0/3mm) and increases the resistance of concrete to abrasion and impacts.

Characteristics

Type: Coloured hardener.

Colours: 9

Particle size: 0/2 mm or 0/3 mm

Packaging: 25 kg bag or tub

Compression strength: Mpa 70,35

Bending strength: MPa 10,15

Dosage: +/- 5kg/m²

Storage: 6 months in unopened original bag, 12 months in unopened original tub; stored in a dry and frost-free location.

Guarantee: Manufacturer's liability

Compliant with standard NF EN 13813

Tools & Cleaning

Concrete mixer, steel and magnesium smoother, rammer, roller, edging trowel, set of moulds, protective gloves.

Clean tools in water after use.

Which beton to choose

To produce a printed concrete, you must either use concrete produced in a power plant or produce your own concrete.

A power plant concrete must have the resistance class C25/30.

Pure cement 280 to 300 kg: m³ CEM II 42.5.

The volume of water (E / C) should not exceed 140 to 150 liters / m³.

Granule size: 16 mm (gravel 8/16 mm, sand 0/4 to 0/8).

Bagging cone, deflection type S3.

Add 1 dose of fibre per m³ at the end (see pre-dosed fibre).

For a homemade concrete, made with a concrete mixer, use 1 dose of fiber cans / 1 bag of cement.

You can always add Harmony retardant (see data sheet Harmony retardant) to retard the work process.

Application

Harmony Béton Stamped concrete must be applied to fresh concrete only. Do not apply at temperatures below 8°C or exceeding 25°C.

Do not use at rain risk (during, or up to 72h after construction).

The thickness and dosing of concrete must be compliant with D.T.U. unified technical documents.

1. After smoothing fresh concrete with a magnesium smoother, scatter Harmony Béton Stamped concrete at a ratio of 2 kg/m². Wait until the powder is fully hydrated.
2. Float the surface using the PermaPro magnesium smoother. Use the edging trowel to relieve formwork edges.
3. Repeat scattering of powder at a ratio of 2 kg/m² and smooth to a finish using the PermaPro iron smoother.

The concrete surface must show a uniform colour.

The concrete is ready to be embossed when, in response to thumb pressure, it is not depressed by more than a few millimetres and does not adhere to the thumb.

4. Apply Harmony coloured mould release agent using the PermaPro brush, wearing a mask, and applying a fine and regular coating to the concrete surface. See data sheet for mould release agent.

Depending on the size of the project to be complete, a set of 3 rigid moulds and 1 flexible mould

will be required.

The larger the project, the higher the recommended number of moulds, in order to allow the rapid embossing of concrete.

5. Position the moulds and commence embossing operations. To eliminate any flash between the moulds, use the PermaPro roller.

6. 7 days later, sweep the surface to remove as much of the mould release agent as possible.

Complete the removal of the mould release agent using a pressure washer.

Protection

Treat entire surface with a premium varnish, wet effect or SL Permapro (see data sheet Varnish and Laquer)

CAUTION: After a few weeks, or even months, white spots may appear called efflorescence or carbon dioxide. The reason for this phenomenon is the preparation of the soil (in the case of placing polythene under the concrete, for example), inadequate rainwater drainage, unfavourable drying conditions of the concrete (by rain), too much water during dosing, too intensive smoothing of the concrete surface.

Make sure not to use less than 4 kg / m², otherwise it will have a negative effect on longevity and permeability.

Agent démoulant coloré / demoulding coating

Description

Harmony Agent démoulant coloré is a ready to use coating and can be applied immediately. The product is water repellent and is used in the production of printed concrete to give the flooring a natural aged patina.

Characteristics

Type: coating

Colours: 11 Packaging: +/- 10 kg tub

Dosage: 1 kg/6m²

Storage: 24 months in unopened original packaging, stored in a dry and frost-free location.

Guarantee: Manufacturer's liability

Tools

brush, protective mask, gloves.

Application

Do not use in windy conditions.

Apply the product with a brush in a thin, even layer, over the concrete surface.

Be sure to wear a protective mask.

Seven days after application, the surface can be cleaned with a broom, vacuum cleaner or with water.

To emphasise the existing colour, or to add other colours we recommend to use our Harmony Relief Enhancer.

The information included in this data sheet is derived from our knowledge and experience of products. In the light of the wide range of potential uses and forms of application, together with constraints associated with conditions of application or subjective conditions, the data contained herein are provided for information only, and have no legal value. Before any application, it should be checked that the present data sheet has not been superseded by a subsequent version. Version of 16/10/2018. www.harmony-beton.com

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