

PLAM SPRAY

Sprayed floor stencil spray

DESCRIPTION

The Isoplam® Plam Spray Floor is a system specially designed to renew old concrete surfaces without having to demolish them, as it creates a maximum thickness of 8 mm.

It simulates the appearance of bricks, stones and rosettes by means of special stencils for floors made of plastic paper, while the color is applied by shaving and spraying Plam Hardening Isoplam® appropriately mixed with Deco Bind Isoplam®.

FIELDS OF EMPLOYMENT

The Isoplam® Plam Spray system can be applied to new or existing horizontal surfaces and is widely used for finishing of ramps, sidewalks, porticoes, car parks, squares and in any place where a pleasant and resistant flooring is required. .

The Isoplam® Plam Spray System can also be applied to new or existing vertical surfaces such as steps, walls,...

Thanks to its particularly rough appearance, the Isoplam® Plam Spray System is also particularly suitable for renewing all surfaces that need a non-slip finish.

PREPARATION OF THE SUPPORT

- a) On existing and mature concrete or sand-cement screeds, proceed with sanding and, if necessary, shot-peening.
- b) On new concrete or sand-cement substrates, take care to leave the surface rough and porous in order to allow a better adhesion of the primer. Let the surface mature at least 28 days before proceeding with the application.
- c) On existing ceramic surfaces (tiles), smooth and grout the joints.
- d) Repair parts that are damaged and deteriorated by using Isoplam® Ipm Epoxy Kit. Any cracks, holes, shallow concavities, any splinters and joints must be previously filled. Remove all residues of dirt, oil, grease, paint, etc.

In all the above cases apply then Skyprimer Isoplam® bicomponent epoxy sprinkling it with Isoplam® quartz (washed and dried with grain 0,6-1,2) or, in the presence of rising damp, Vapor Barrier Isoplam®, three-component epoxy (in which drown the Isoplam® Fiberglass Net) and Skyprimer as technical data sheet explains.

It is always recommended to carry out sampling on site before the execution of the work.

Existing joints must be respected and then reported on the surface.

DOSAGE AND CONSUMPTION

Basecoat: spatula or using Isoplam[®] steel squeegee:

Plam Hardening (consumption 4,00 Kg / sqm) + Deco Bind (consumption 0,40 Lt / sqm) mixed with water (ratio 1: 1).

Finishing hand: sprayed using Hoppergun Isoplam[®] spray gun:

Plam Hardening (consumption 3,00 Kg / sqm) + Deco Bind (0,30 Lt / sqm) mixed with water (ratio 1: 1,5)

WET ON DRY APPLICATION

The temperatures of application must be between + 5 ° C and + 35 ° C. Do not use in extreme temperatures or strong wind conditions.

Deco Bind Isoplam[®] should be stored in a cool place. Before and during use it is important to mix the product 3 minutes before use.

First hand

Mix carefully Deco Bind Isoplam[®] appropriately diluted and then slowly add Plam Hardening Isoplam[®] amalgamating for a couple of minutes to remove lumps.

Within 25-30 minutes (at an average temperature of about 20 ° C) apply the mixture by shaving it evenly over the surface made of Skyprimer with Isoplam[®] steel trowel or with Isoplam[®] steel squeegee, to obtain a suitable thickness. Let the surface dry until it is possible to walk on it. It is recommended to wear Isoplam[®] Shoe Covers during application to avoid dirtying the support.

Laying the Stencil

If necessary, sand to eliminate any product smudging. Remove residues with a broom or compressed air.

Lay the Isoplam[®] Stencil on the surface taking care to avoid swelling of the paper. We recommend to use the Isoplam[®] Stencil Roller which facilitates the laying of the paper. Stitch the separated parts of the Isoplam[®] Stencil with staples.

Finishing hand

It is advisable to apply the second coat within 24 hours from the first one.

Mix carefully Deco Bind Isoplam[®] appropriately diluted and then slowly add Plam Hardening Isoplam[®] amalgamating for a couple of minutes to remove lumps.

Within 25-30 minutes (at an average temperature of about 20 ° C) spray the mixture on the surface using a Hoppergun Isoplam[®] gun until it is 2-3 mm thick. The finish thus obtained can be left as it is or can be smoothed with an Isoplam[®] steel trowel. Let the surface dry until it is possible to walk on it. It is recommended to wear Isoplam[®] shoe covers during the application to avoid dirtying the surface.

As soon as you can walk on it, remove the Isoplam[®] Stencil and gently wipe off the residues with soft or medium Isoplam[®] bristles brush.

Note: all joints present in the support must be respected.

Resin application

Once completely dry, apply in two coats the Plam Sealing Water Isoplam[®], water-based resin.

In mountainous or maritime environments or with particularly severe climatic conditions, before applying the resin, it is advisable to apply the antisalt water-repellent treatment Idrorep/A Isoplam[®].

In all cases, a solvent-based protective product should never be used.

Consult the Isoplam Technical Office to check the most suitable type of protective treatment.

WET ON DRY APPLICATION

It is possible to use Isoplam Stencils also on concretes just made if the dimensions of the surface to be realized are contained.

The substrate must be prepared according to the UNI 11146 standard, constipating and correctly establishing the casting levels.

We recommend laying Isoplam® Nylon as a vapor barrier and Isoplam® Tessuto non Tessuto and applying Isoplam® Perimeter Band in order to avoid moisture rising, rapid drying and crazing.

Properly arm concrete according to regulations, using Isoplam® Spacers for correct positioning of the net, or using Isoplam® structural Fibers.

It is recommended to choose appropriately the type of concrete mix that must comply with the UNI EN 206 standard for floors exposed to freezing in the absence of de-icing salts.

It is recommended to rely, when possible, on trusted concrete plants that use selected cements and aggregates to avoid the appearance (even after years) of efflorescence. These occur in the form of whitish spots when the dissolved salts in the concrete rise to the surface together with the water that contains them, or in the presence of high humidity (even after the realization of the paving) with the formation of calcium carbonate.

The resistance class must not be less than Rck 30 N / mm² (C25 / 30). The cement dosage must not be less than 350 kg / m³ (type 325 cement in the summer period and 425 in the winter period). An aggregate consisting of inert fine 15 - 18 mm is recommended, washed and non-reactive in order to avoid pop-out phenomena.

The average minimum thickness must not be less than 10 cm for pedestrian areas, 15 cm for areas with light vehicular traffic.

In the case that the concrete is laid mechanically, using the Staggia Vibrante Magic Screed Isoplam®, the appropriate consistency class will be S2-S3. If the concrete is laid out manually with Staggia in Isoplam® aluminum, the appropriate consistency class will be S4.

In order not to compromise the final resistance of the flooring, it is advisable not to exceed with the water in the mixture of concrete. For this purpose it is recommended to use seasonal superfluidifying additives such as Hotpav Isoplam® or Coldpav Isoplam®.

The use of Isoplam® Polypropylene Fibers CIs is recommended to prevent the formation of micro cracks caused by the plastic shrinkage of the concrete.

Choose concrete plants close to the construction site. It is important that the concrete destined for the same building site is always prepared by the same plant with the same dosages, in order to avoid differences in color tones between one casting and another.

Once the concrete has been leveled respecting the minimum slope of 1% and smoothed with Isoplam® Magnesium plank, proceed with the laying of the Isoplam Stencil (taking care not to step on the surface, in which, being the concrete still fresh, would collapse) trying to avoid swelling of the paper. We recommend using the Isoplam® Stencil Roller to make the paper adhere to the surface as much as possible.

Apply Plam Hardening Isoplam® in two hands from top to bottom on fresh concrete. Between one coat and the other the product must be smoothed by Isoplam® Steel Table and Isoplam® Equipment for edge finishing.

Do not use Plam Hardening Isoplam® to cover areas with excess water: this procedure may cause surface leafing.

It is also possible to apply Plam Rele and mold the surface as in the printed floor.

Remove the stencil as soon as possible to prevent it from being incorporated into the concrete.

If necessary, after one or two days (especially after using the Plam Rele), wash the surface thoroughly.

Once completely dry (wait two to three days depending on the climatic conditions), apply in two coats the Plam Sealing Water Isoplam®, water-based resin, or Idrorep/A.

In mountainous or maritime environments or with particularly severe climatic conditions, before applying the resin it is advisable to apply Idrorep/A Isoplam[®] (check the application times of the products listed above).

In any case, consult the Isoplam Technical Office to check the most suitable type of protective treatment.

COLOURS AND TEXTURES

The colors of the Isoplam[®] Plam Spray system can be obtained by choosing the shade between the 35 colors of Plam Hardening Isoplam[®] of the Isoplam[®] Color Chart.

On demand and for minimum quantities of 1200 kg it is possible to order customized colors.

You can also choose the texture of Isoplam[®] Stencils available in 14 models, as well as 2 types of rosettes and 4 types of bands.

PACKAGING

Plam Hardening Isoplam[®] is supplied in 25 kg plastic vases.

Deco Bind Isoplam[®] binder is supplied in jerry cans of Lt. 5 or in vases of Lt. 20.

Plam Sealing Water Isoplam[®] and Idrorep/A Isoplam[®], resins, are supplied in jerry cans of Lt. 20.

Stencil Isoplam[®] is supplied in rolls of 100x1m height.

CONSERVATION, EXPIRATION, GUARANTEE AND SECURITY

Isoplam[®] products must be stored in a dry and ventilated place, with temperatures between + 5 ° C and + 35 ° C. Isoplam[®] guarantees that the products used for production are free from any type of flaw. The products, if properly stored and kept in their original and sealed packaging, are guaranteed for 12 months.

The packaging date of the various products that make up the system is shown on the packaging (the batch number indicates, in sequence, year / week / day).

Isoplam is not responsible for any problems due to the use of its products mixed or superimposed with other similar products.

Consult the safety data sheets of Isoplam[®] products before use.

Individual jobs must be performed with a single production lot. Otherwise Isoplam Srl is not liable for any difference in color.

IMPORTANT

Isoplam[®] products are formulated to be used as in the application above. Adding any other product compromises the final result.

All information contained in this sheet is based on the best practical and laboratory experiences. It is the customer's responsibility to verify that the products are suitable for the intended use. The manufacturer declines all responsibility for the results of incorrect applications. It is advisable to always carry out tests on small surfaces before application. Data can be changed at any time. This sheet replaces and cancels previous ones.

Isoplam[®] products are intended for professional use. Isoplam Srl periodically organizes courses for its customers who request it.