

TERRAZZOVERLAY™ XL

Smooth coating for interiors and exteriors

DESCRIPTION

Terrazzoverlay XL Isoplam® is a coating for internal and external flooring, 2 to 5 cm thick, smooth and polishable, to be applied over old existing flooring or for new constructions, which allows you to recreate the typical, elegant texture and refinement of the Venetian terrace. Terrazzoverlay XL brushed effect can also be created outdoors.

The system is made up of a mixture made up of:

- Deco Ghiaino Isoplam®: colored mixture based on siliceous aggregates, fibre-reinforced, anti-shrinkage, anti-efflorescence and with additives;
- white or gray cement;
- selected marble chips and any valuable aggregates;
- Deco Bind Isoplam®: liquid binder.

The combination of the various elements that compose it and the degree of sanding chosen ensure a unique chromatic finish and aesthetic appearance.

FIELDS OF USE

Terrazzoverlay XL Isoplam® is ideal for creating a prestigious flooring in environments such as:

- homes;
- shops and shopping centres;
- showrooms;
- sites of historical and cultural interest (museums, art galleries, meeting areas);
- airports and railway stations;
- offices;
- restaurants;
- hotels.

ADVANTAGES

The Terrazzoverlay XL Isoplam® system allows you to have surfaces:

- of high aesthetic impact;
- with customized colors and use of precious marbles and stones;
- without joints (the formation of joints is expected);
- polished or matt for interiors or brushed non-slip for exteriors;
- hygienic, as there are no joints;
- very resistant to traffic, environmental conditions and UV rays;
- eco friendly, as the system is made up of water-based products and natural grit.

PREPARATION OF THE SUPPORT

a) On a suitable anti-shrink cement base with structural cuts where applicable, correctly cured for at least 28 days (self-levelling cement base or anti-shrink fiber screed, compact, well levelled, planar and free of cracks, porous, with a mechanical resistance of at least 25 N/ mm² and at compression of at least 300 kg/cm², with a cohesion of no less than 1.5 N/mm² and a humidity of less than 4%, free of contaminating elements such as oils, greases, grouts...) apply a coat of Deco Epox W BI as an absorption uniformizer.

- b) On existing ceramic surfaces (tiles), smooth and fill the joints.
- c) Repair parts that are damaged and deteriorated using Ipm Epoxy Kit Isoplam®. Any cracks, shallow holes and joints must be filled beforehand. Remove all residues of dirt, oil, grease, paint etc.
- d) In the presence of rising damp, apply Vapor Barrier Isoplam®, a three-component epoxy (in which to drown the Isoplam® Glass Fiber Mesh).

In all the above cases, then apply one or two coats of two-component epoxy Skyprimer Isoplam®, dusting with Isoplam® quartz (as per the technical data sheet).

It is essential to bring the pre-existing joints back to the surface of the covering and, where necessary, create new ones according to the size of the flooring to be created. Install Plam Profil Levigabili Isoplam® in brass or aluminum on the support using Plam Plaster Isoplam® two-component epoxy anchor for creating joints and delimiting the backgrounds. Consult the technical data sheets of the products indicated for correct installation.

MIXTURE AND CONSUMPTION

- The components of the Isoplam® Terrazzoverlay XL system must be dosed according to the following indicative basic formulation:

1 part of Deco Ghiaino	or 25 Kg of Deco Ghiaino
2 parts of 425 gray	or 525 white cement or 50 kg of cement
5 parts of marble grit	or 125 kg of grit
0.2 parts of water	or 5 liters of water
0.8 parts of Deco Bind	or 20 Lt of Deco Bind

In case of work in hot weather, it is recommended to add 1.2% of Hotpav Isoplam to the mix, calculated on the weight of the cement.

The indicative consumption per m² per cm of thickness for a mixture made using the basic formulation is:

Deco Ghiaino	2.5 Kg
Cement	5 Kg
Grit	12.5 kg
Water	0.5 Lt
Deco Bind	2 Lt
Hotpav (in hot season)	0.06 Lt

It should be noted that the consumption of the liquid part of the mixture (water and Deco Bind) can vary based on the degree of absorption of the support, the environmental temperature, the desired finish and the degree of humidity of the grit.

Pay attention that the thickness of the flooring to be sanded must be at least double the maximum size of the chosen grit (example: if you want to use grit with a diameter of 9-12 mm, the thickness to be sanded must be at least 24 mm).

- It is recommended to mix the components of the Terrazzoverlay XL Isoplam® system in a concrete mixer in the following way:
 - 1) pour 50% of the grit
 - 2) add the Deco Ghiaino and the cement
 - 3) add the water and the Deco Bind and mix for a couple of minutes
 - 4) slowly add any Hotpav additive;
 - 5) add the remaining grit
 - 6) mix well for another couple of minutes until a homogeneous mixture is obtained.

APPLICATION

Note:

- The temperatures of use of the products must be between +5°C and +30°C.

- In the presence of an underfloor heating system, it is essential that the testing is carried out before creating the Terrazzooverlay XL covering and that it is not turned on before the floor is completely cured. It is also important that the system is put into operation with gradual temperatures in order to avoid the formation of unsightly cracks and cracks.
- In case of external installation: do not install the covering in extreme temperatures, in windy conditions, under the direct action of the sun's rays or if rain is expected within 24 hours of application.

Apply the Terrazzooverlay XL Isoplam mixture with a concrete rake, level with a straight edge long enough to rest on the Plam Profil which act as rulers and casting formwork.

In this phase it is possible to sow larger grit or valuable aggregates, taking care to then compact it with the Isoplam grout roller so as to correctly drown the sown aggregates.

Smooth the surface with Isoplam® steel trowels and pass the Isoplam stencil roller over the surface.

As soon as it is possible to walk on the surface, spread the Isoplam Non-Woven Fabric (TNT) moistened with water and then the Isoplam Nylon so that drying occurs gradually, allowing correct curing and avoiding the formation of cracks.

After about 7 days remove the nylon and TNT.

POLISHING

After 15-30 days from the casting (depending on the season) it is possible to smooth the surface.

The degree of sanding varies based on the desired finish (rough or brushed for exteriors or smooth for interiors).

The grouting of any small holes must be carried out by preparing a grout composed of one part of Deco Ghiaino in the color used (previously sifted to remove the larger parts), 2 parts of cement (of the same color used) and Deco Bind to taste. to create a liquid grout.

Once the grouting is completely dry (3-5 days), you can proceed with polishing the surface.

We will proceed with sanding with metal tools starting from the coarsest grain and subsequent polishing with resinoids or diamond discs, following the color sequence:

Military green gr 30

Green gr 60

Black gr 120

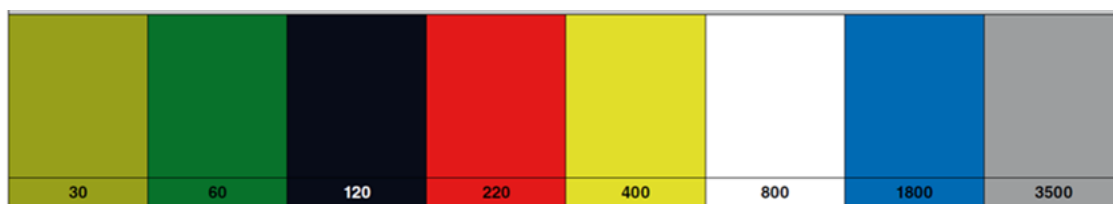
Red gr 220

Yellow gr 400

White gr 800

Blue gr 1800

Gray gr 3500



The choice of tools to use will depend on the degree of smoothing/polishing desired, the maturation of the coating, the hardness of the aggregates and the degree of wear of the tools themselves.

COLORS AND FINISH

The color of the flooring will depend on:

- by the color of Deco Ghiaino used (colourless, yellow ocher, mahogany, powder pink, dune);
- the color of the cement used (grey or white);
- by the color of the grit used (see Isoplam Grit Color Chart).

The color tone of the flooring will also depend on the protective agent used (consult the Isoplam Technical Office).

Any non-uniformity of color and/or presence of concentrations of grit and small imperfections must be interpreted as quality of the work.

The finish (more or less matt for the inside; more or less rough or brushed for the outside) depends on the type of sanding and polishing performed on the surface and the type of final protective agent used. The surfaces in Terrazzoverlay XL are handcrafted. The parts close to walls or vertical constraints of any nature, given the different sanding, could have a slightly different degree of finish from the rest of the surface, which must be understood and accepted.

PROTECTIVE TREATMENTS AND MAINTENANCE

After sanding and possibly polishing, a protective treatment must be applied to the Terrazzoverlay XL Isoplam® surface which must be chosen based on the intended use of the flooring (internal or external) and aesthetic preferences (more or less opaque).

Contact the Isoplam Technical Office to choose the most suitable protective agent.

Terrazzoverlay XL Isoplam® floors are considered decorative surfaces and must be treated and maintained as such.

We recommend cleaning with Wow Isoplam® (neutral detergent) and in any case never with aggressive products.

Like all walkable surfaces, areas of frequent passage could become scratched and dull over time: correct maintenance of the flooring is essential.

We invite you to consult the maintenance manual for decorative surfaces on the website www.isoplam.it.

TECHNICAL INFORMATION

The Terrazzoverlay XL Isoplam® system complies with UNI EN 13813:2004.

<i>Performance feature</i>	<i>Test method</i>	<i>Product performance</i>
Reaction to fire	-	NPD
Release of corrosive substances	-	NPD
Water permeability	-	NPD
Water vapor permeability	-	NPD
Mechanical resistance to compression	EN 13813:2004	C40
Mechanical resistance to bending	EN 13813:2004	F5
Mechanical resistance to wear	EN 13813:2004	24 µm AR0,5
Sound insulation	-	NPD
Sound absorption	-	NPD
Heat resistance	-	NPD
Chemical resistance	-	NPD
Strength of adhesion to the support	UNI EN 13892-8:2004	1,62 N/mm ²
Adhesion after freeze-thaw cycles with de-icing salts	EN 13687-1:2002	1,38 N/mm ²
Dangerous substances	EN 13813:2004	Within the limits of article 31 and/or article 33 of Regulation 1907/2006

PACKAGING

The components of the Terrazzoverlay XL Isoplam® system are available in the following packages:

- | | |
|----------------|--------------------------|
| - Deco Ghiaino | 25 kg bag |
| - White cement | 20 kg bag |
| - Gray cement | 25 kg bag |
| - Marble grit | 25 kg bag or 1500 kg bag |
| - Deco Bind | 5 L or 20 L canister |
| - Hotpav | 20 liter tank |

STORAGE AND SAFETY

If correctly stored (in a cool place at a temperature between +5 and +30°C), the products that make up the Terrazzoverlay XL Isoplam® system have a shelf life of at least 12 months from the date shown on the packaging (the batch number indicates, sequentially, year/week/day).

The products that make up the Terrazzoverlay XL Isoplam® system are intended for professional use only.

It is recommended to read the safety data sheets of the individual components of the system.

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

IMPORTANT: All the information contained in this sheet is based on the best practical and laboratory experiences. It is the customer's responsibility to verify that the product is 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. This sheet replaces and cancels the previous ones. Data can be changed at any time. It is also recalled that Isoplam products are intended for professional use and that Isoplam provides periodic training for its customers who request it. Anyone who uses these products without being enabled, does so at their own risk.