

TERRAZZOVERLAY

Polished Microterrazzo

DESCRIPTION

Terrazzoverlay Isoplam[®] is a low thickness coating, from 4 mm to 8 mm, smooth and polishable, to be applied over existing or new old flooring. It allows you to recreate the typical, elegant texture and refinement of the Venetian terrace.

The system consists of a mixture made of:

- Terrazzo Bond: water based polymer binder;
- Terrazzo Mix: cement-based white cement powder, superplasticizers and special additives;
- Marble: fine Italian marble grit.

If left raw, Terrazzoverlay[™] is also achievable outside.

FIELDS OF USE

Terrazzoverlay Isoplam[®] is ideal for creating new flooring in environments such as:

- housing;
- shops;
- showrooms;
- sites of historical and cultural interest (museums, meeting areas)
- offices;
- restaurants;
- hotels.

ADVANTAGES

The Terrazzoverlay Isoplam[®] system allows to create surfaces:

- of high aesthetic impact;
- unique, as it allows to have different colorings and customizable Marble mix;
- without grout lines (only the carryover of any cuts and joints present on the existing support is envisaged);
- smooth and polished for inside or rough non-slip for the outside;
- hygienic, as without grout lines;
- very resistant to both traffic and environmental conditions and UV rays;
- eco-friendly, as the system consists of water-based and natural grit products;
- low thickness (from 4 to 8 mm);
- smoothable already after 7 days.

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 return the pre-existing **joints** to the surface of the coating and, where necessary, create new ones according to the size of the flooring to be built. 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® Terrazzooverlay system must be dosed according to the following indicative basic formulation:

1 part by weight of Terrazzo Bond	or 3 19 liter pots of Terrazzo Bond
2 parts by weight of Terrazzo Mix	or 6 19 kg pots of Terrazzo Mix
2.6 parts by weight of Marble	or 6 pots of 25 kg of Marble

In case of processing in hot weather, it is recommended to add 1,2% of Hotpav Isoplam to the mix, calculated on the weight of the Terrazzo Mix.

The indicative consumption per square meter for a mixture made using the basic formulation are:

	Thickness 1 mm	Thickness 5 mm	Thickness 6 mm	Thickness 8 mm
<i>Terrazzo Bond</i>	0,41 Kg/mq	2,05 Kg/mq	2,46 Kg/mq	3,28 Kg/mq
<i>Terrazzo Mix</i>	0,82 Kg/mq	4,10 Kg/mq	4,92 Kg/mq	6,56 Kg/mq
<i>Marmo</i>	1,08 Kg/mq	5,40 Kg/mq	6,48 Kg/mq	8,64 Kg/mq
<i>Tot. mixture</i>	<i>2,31 Kg/mq</i>	<i>11,55 Kg/mq</i>	<i>13,86 Kg/mq</i>	<i>18,48 Kg/mq</i>

It should be noted that consumption (especially for Terrazzo Bond) can vary based on the degree of absorption of the surface, the ambient temperatures, the desired finish and the degree of humidity of the marble.

Pay attention that the thickness of the flooring to be sanded must be approximately double the maximum size of the chosen grit (example: if you want to use 3-5 mm grit, the thickness to be sanded must be at least 10 mm).

- The components of the Terrazzooverlay™ Isoplam® system must be mixed in a mixer according to the following instructions (a total of approximately 321 kg of concrete mixer is obtained, i.e. it is possible to create approximately 17 m² at 8 mm thickness to be smoothed):

- 1) pour 2 19 liter pots of Terrazzo Bond (carefully mixed a few minutes before use and colored if necessary) into the mixer;
- 2) add by mixing 6 25 kg jars of marble;
- 3) slowly add 6 19 kg pots of Terrazzo Mix while mixing;
- 4) add the remaining jar of Terrazzo Bond while mixing (in quantities that vary depending on the degree of humidity of the marble and the ambient temperatures);
- 5) slowly add the Hotpav additive if needed;
- 6) continue mixing for a couple of minutes until the mixture is homogeneous.

COLORING

Terrazzo Mix cement mixtures are supplied in two standard colors: white and gray.

Marble split grits are available in sizes 1-3 mm and 3-5 mm and in 4 color versions: bianco Carrara, botticino, grigio cielo, nero ebano.

It is possible to obtain other colors using **Plam Color** Isoplam®, a specially formulated water-based dye containing UV-stable pigments. Plam Color Isoplam® should be mixed thoroughly with Terrazzo Bond before it is mixed with the powder and marble. To obtain the coloring of the tozzetti present in the Terrazzooverlay™ Color Folder Isoplam®, it is necessary to respect the dosage of 100 grams of Plam

Color per 1 Kg of Terrazzo Bond and follow the instructions on each sled. To have even more intense colors you can double the dosage of Plam Color (up to 200 gr for each Kg of Terrazzo Bond).

It is recommended to color all the amount of Terrazzo Bond necessary for the realization of the work, before starting mixing with the powder and marble, in order to obtain a uniform color throughout the coating. Take care to mix Terrazzo Bond with Plam Color immediately before each use in order to avoid different concentrations of dye. Plam Color Isoplam[®] for Terrazzoverlay[™] is available in 10 colors as per the Terrazzoverlay Isoplam Color Chart[®]: white, old white, turtledove, sahara, brown, taupe, gray, dark gray, cotton and carbon black.

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 testing is carried out before creating the Terrazzoverlay 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 mixture of the 3 components of Terrazzoverlay[™] Isoplam[®] within max 10 minutes (at an average temperature of 18°C), level with a straightedge and adjust the thickness with an adjustable Isoplam[®] doctor blade.

After about ten minutes, enter the surface wearing spiked shoes and smooth the surface with an Isoplam[®] steel trowel, keeping E-Red handy to spray on the surface if necessary to avoid excessive evaporation during processing.

Pass the Isoplam stencil roller over the entire surface in order to have a homogeneous surface and spray Terrazzo Bond evenly over the entire surface.

The surface will be walkable after a couple of days.

POLISHING

After approximately 7 days (depending on the temperature) the surface can be sanded.

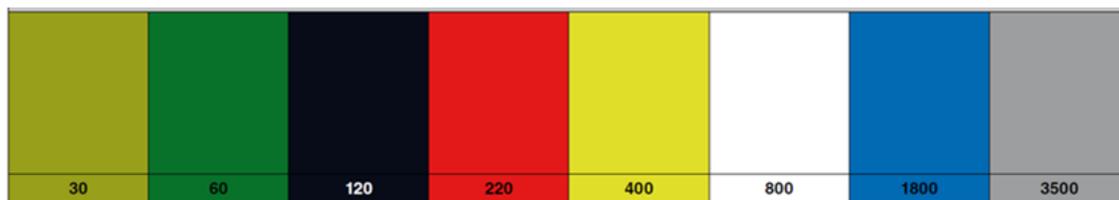
The degree of sanding varies based on the desired finish (rough for exteriors or smooth for interiors).

Any small holes must be filled with colored Terrazzo Bond and Terrazzo Mix mixed together (approximately 1 part Terrazzo Bond and 3 parts Terrazzo Mix).

Once the grouting grout is dry, you can proceed with any polishing of 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 Terrazzo Mix used (white or gray);
- by the color of the Plam Color used (according to the Isoplam color chart);
- by the color of the marble used (according to the Isoplam 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 Terrazzooverlay 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 Terrazzooverlay™ Isoplam surface which varies according to the intended use of the flooring and the degree of porosity of the surface. It is recommended to contact the Isoplam Technical Office to define the most suitable protective treatment.

Terrazzooverlay™ Isoplam® floors are considered decorative surfaces and so must be treated and maintained as such. We recommend cleaning with Wow Isoplam® (neutral detergent) and in any case never with aggressive products. Periodically (every 4-8 months depending on the use of the floor) it is recommended to apply a thin layer of Plam Poly Wax (matt polyurethane wax) or Metallic Wax (glossy effect metallic wax). We invite you to consult the maintenance manual for decorative surfaces on the website www.isoplam.it.

TECHNICAL INFORMATION

The Terrazzooverlay™ Isoplam® system complies with UNI EN 13813:2004.

<i>Performance feature for polished and polished Terrazzooverlay</i>	<i>Test method</i>	<i>Product performance</i>
Compressive strength	UNI EN 13892-2:2005	C40
Flexural strength	UNI EN 13892-2:2005	F7
Wear resistance	UNI EN 13892-4:2005	AR0,5
Strength adhesion	UNI EN 13892-8:2004	B1,5
Reaction to fire	UNI EN 13501-1:2009	A2 _{FL} - s ₁
Thermal conductivity λ	ASTM E1530-11	1,17 [W/(m · K)]
VOC Emission	UNI EN ISO 16000-9:2006	A+
Release of corrosive substances	-	NPD
Sound insulation	-	NPD
Sound absorption	-	NPD

Slip resistance - Outdoor system - Indoor system	DIN 51130:2014	R11 R9
Resistance to severe chemical attacks		
Swimming pool water: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Red wine: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Vinegar: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	Darkening Darkening
Coffee: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Black ink: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	Slight darkening Darkening and opacity
Coke: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Ketchup: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Ammonia (25%V/V aqueous solution): - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Lemon: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	Slight opacification Slight removal of the surface layer
Fruit juice: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Acetone: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	Removal of the coating Removal of the coating
Tomato sauce: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Olive oil: - alteration after 1 hour - alteration after 24 hours	UNI EN 14617-10 app. A	No alteration No alteration
Hydrochloric acid solution: - alteration after 1 hour - alteration after 8 hours	UNI EN 14617-10	Appearance of clear lines Removal of the surface layer
Sodium hydroxide solution: - alteration after 1 hour - alteration after 8 hours	UNI EN 14617-10	No alteration No alteration

PACKAGING

The components of the Terrazzooverlay Isoplam® system are available in the following packages:
- Terrazzo Bond: bucket Lt. 19;

- Terrazzo Mix: bucket Kg. 19;
- Marmo: sack Kg. 25;
- Plam Color: packaging 0,75 Lt;
- Hotpav: bucket 20 Lt.

STORAGE AND SAFETY

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

The products that make up the Isoplam® Terrazzooverlay system are intended for professional use only. It is recommended to read and keep the safety data sheets of the individual system components.

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.