

LIXIO[®] Microterrazzo

Cementitious topping with marble aggregates optimized for polishing

DESCRIPTION

LIXIO[®] is a polymer modified cement based microterrazzo. Using LIXIO[®] it is possible to create high-end polished surfaces. High quality Italian marble aggregates are used to offer a prestigious and modern floor. With only 5-7 mm thickness it is possible to create a high abrasion resistant surface, ideal for commercial and residential areas such as shops, restaurants, hotels, museum and private villas. Each floor is a unique creation. The customer can choose his own mix of aggregates and the grade of polishing (from textured to high gloss polish). LIXIO[®] can be applied not only inside but also outside where a textured "buccardè" finish is recommended for an elegant slip resistant finish.

USES

- Residential
- Shops and showrooms
- Hotels and restaurants
- Shopping centres
- Pool borders
- Museums / galleries
- Offices

ADVANTAGES

- Excellent adhesion.
- Excellent resistance to high traffic.
- Internal and external application
- Matt or gloss. Smooth or textured surfaces
- Large selection of colours and aggregates
- Resistant to UV rays and harsh weather conditions.
- Manufactured with low environmental impact (recycled marble aggregates)

TECHNICAL INFORMATION

Description	Standard	Result
Determination of abrasion resistance BCA	UNI EN 13892/4	Class AR0,5 max 50µ (50µ = 0,05 mm)
Determination of bond strength	UNI EN 13892-8	2,2 N/mm ²
Determination of flexural strength	UNI EN 13892-2:2005	9,66 N/mm ²
Determination of compressive strength	UNI EN 13892-2:2005	41,80 N/mm ²
Classification fire reaction	UNI EN 13501	Class A1 (European class)

LIXIO MICROTERRAZZO SYSTEM

IDEAL WORK LIXIO is a 3-components system comprised of:

- 1) LIXIO[®] POWDER: Special cement mixture of white cement and selected additives
- 2) LIXIO[®] FLUID: Water based liquid polymer.
- 3) LIXIO[®] MARBLE BLEND (3rd component): A special blend of high quality Italian marble aggregates.

The 3rd component of the mix may be chosen from the standard range of colours (see below) or it is possible to create a customized blend.

PREPARATION OF THE SURFACE

Each surface is treated differently depending on whether this is concrete, sand-cement screed, ceramic or a self-levelling surface. The floor may be shot-blasted or diamond ground to remove the weaker and friable elements on the concrete surface to ensure excellent mechanical adhesion.

Badly damaged concrete or cracks need to be repaired prior to LIXIO® being applied. Repair mortars and epoxies are used for such repairs (EPOXY-COAT or IDEAL MALTA 01)

Existing joints must be respected. The surface must be well levelled to avoid over-consumption of material.

It is recommended to apply EPOXY-COAT and quartz (0,8-1,2MM) as primer over tiles or marble (see tech-data).

On potentially humid surfaces two coats of BARRIERA-CEM, an epoxy-cement smooth finishing compound for thin coating, should be used. This creates a chemical vapour barrier on concrete, sand-cement, tiles and marble.

NOTE: If there are areas with the presence of hydraulic fluids, cutting oils or other materials suspected of migration, they should be properly treated. In the event that there is no guarantee that you will get a suitable surface, it is recommended **not to proceed** with the application of the product.

DOSAGE AND CONSUMPTION

1 mix is composed of:

- 25,00 Kg LIXIO® MARBLE BLEND
- 18.75 Kg LIXIO® POWDER
- 6.25/6.50 Kg LIXIO® FLUID

CONSUMPTION Kg/m ²	1 mm	5 mm	6 mm	7 mm
LIXIO® MARBLE BLEND	1,05	5,26	6,31	7,36
LIXIO® POWDER	0,79	3,95	4,73	5,52
LIXIO® FLUID	0,27	1,37	1,64	1,91
	2,12	10,58	12,69	14,80

Consumption may vary depending on the existing level and porosity of the substrate and the desired finish.

MIXING

The temperature during mixing and laying of the material should be between 10°C and 28°C. Do not use in the case of extreme temperatures or windy conditions.

LIXIO® FLUID is to be kept in a cool place before and during use. The temperature of the components will influence the pot-life. It is important to mix the polymer 3 minutes before use.

Pour 4-5 kg of LIXIO® FLUID into a mixer. Slowly add the full bag of LIXIO® MARBLE BLEND into mixer. Then slowly add LIXIO® POWDER and the remaining LIXIO® FLUID until you get the right consistency. Mix for 2-3 minutes to remove lumps or dry spots.

The quantity of LIXIO® FLUID could vary between 6.25 kg to 6.50 kg per mix. This can change based on the humidity of LIXIO® MARBLE BLEND aggregates.

APPLICATION

Once all the materials are properly mixed, apply the mixture within 5 - 10 minutes at temperatures averaging 20°C. Distribute LIXIO[®] on the prepared surface with a steel trowel and a gauge rake.

Screed guides or joint strips can be used to control the levels.

After about 15-60 minutes (depending the temperature), the surface must be smoothed with a steel trowel. It is possible to walk over the surface with spike shoes. We recommend the use of IW-EC, evaporation controller. This product can be used after the screed phase and during the smoothing phase.

When the surface is smooth, apply a light coat of L&M Cure (Curing Agent).

After 24 h protect the surface from contamination with a layer of geotextile and over this a pvc sheet.

Once the application is completed, leave the surface to mature for a period of 24-36 hours before allowing foot traffic.

IMPORTANT: The overall thickness of the system must not exceed 10 mm in thickness.

COLOUR

LIXIO[®] POWDER is supplied in a white standard colour. This is the colour of the matrix. To achieve more colours, Colour Pack-C can be added to LIXIO[®] FLUID during the mixing phase.

Colour Pack-C is a water-based dye made from UV stable pigments designed for use with many IDEAL WORK products. Due to its high dispersal action, Colour Pack-C is able to create a uniform colour.

Colour Pack-C is available in 25 different colours. The intensity and shade will vary depending on the amount of product diluted in the LIXIO[®] FLUID and the type of LIXIO[®] MARBLE BLEND used. We recommend matching the colour of the aggregates of LIXIO[®] MARBLE BLEND with the colour of the matrix: if black aggregates are used, it is recommended to use black Colour Pack C.

Dosage

For standard colours, mix 28 grams of Colour Pack-C for each kg of LIXIO[®] FLUID. For large jobs, great care must be taken to ensure consistency of colour and the dilution ratio chosen.

Note: In order to obtain uniform colour throughout the floor, we recommend colouring the amount of LIXIO[®] FLUID needed to implement the work before you start mixing the cement bases (LIXIO[®] POWDER and LIXIO[®] MARBLE BLEND).

LIXIO[®] MARBLE BLEND can also be supplied in different colours:

- Bianco Carrara (White)
- Botticino (Ivory)
- Occhialino (Gray)

POLISHING

Let the surface dry for 3-7 days depending on the temperature. When the surface is hard enough, it is possible to grind and polish the surface. The customer can choose the level of smoothness (from orange peel to very smooth) and the level of glossiness (from matt to super gloss)

We recommend a wet grinding and then a dry polishing method.

PROTECTIVE COATING

Once LIXIO® is cured and polished, the application of a protective sealer or coating is recommended.

The type of sealer should be chosen with consideration to the amount of traffic anticipated and the environment. Recommended sealers include Ideal FX-ECO, Ideal PU-WB, PETROTEX-S and Ideal Cera. These products are applied by short pile rollers, sprayers or wax spreaders. Consult IDEAL WORK Technical Service to choose the correct protective product for your situation.

MAINTENANCE

IMPORTANT: LIXIO® floors are considered decorative flooring, so you will have to pay particular attention to their maintenance:

- Wash the floor using detergent with a neutral ph.
- Do not under any circumstances use corrosive products.
- Avoid using machines with hard pcv bristles. Clean ONLY with white pads.
- In interior flooring, every 3 - 6 months it is recommended to apply a light coat of wax as IDEAL CERA (depending on the traffic).

PACKAGING

LIXIO® POWDER	18.75 Kg
LIXIO® FLUID	10,00 Kg
LIXIO® MARBLE BLEND	25,00 Kg (#)

(#) the weight LIXIO BLEND can have a +/- 3% tolerance due to the nature of the material.

STORAGE

Store in a cool and safe place at a temperature of 15 - 20°C.
Keep containers tightly sealed. The shelf life of LIXIO® POWDER and LIXIO® FLUID is at least 12 months.

PRECAUTIONS

LIXIO® is not intended for public use, it is intended for use by experienced and trained contractors. The product is cement-based so avoid contact with skin, mucous membranes, eyes, etc... In case of accidental contact, wash thoroughly with soap and water and seek medical advice.

It is recommended to use masks and gloves. In closed rooms, provide good ventilation and avoid the inhalation of dust. Soap and water are sufficient to wash hands and other body parts. Consult the safety data sheet.

IMPORTANT:

All the information contained in this sheet is based on the best practical and laboratory applications. It is the customer's responsibility to check the product is suitable for the intended use. The manufacturer declines any responsibility for wrong application. It is recommended to carry out tests on small areas before application. This sheet replaces and cancels any previous versions. The data contained can be changed at any time. Ideal Work products are intended for professional use only and the company organises periodic training for its customers on demand. Anyone who uses these products without qualification takes all the associated risks.

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