

# Specification for

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## **IDEAL WORK LIXIO® TERRAZZO-FLOOR**

**LIXIO® PROPRIETARY SYSTEM TO HARD/ MASONRY / CONCRETE FLATWORK.**  
To be read with Preliminary/General Conditions

<b>Types of finish</b>	Terrazzo fine chipped look, (polished/honed)
<b>Drawing reference</b>	
<b>Location/project</b>	
<b>Product Reference</b>	Ideal Work LIXIO® low thickness terrazzo-floor
<b>Manufacturer Ref.</b>	Ideal Work S.R.L, Via Kennedy 52, 31030 Valla Di RiesePioX (TV) Italy Tel: +39 0423 4535 Website: <a href="http://www.idealwork.com">www.idealwork.com</a>

### ***Lixio® decorative microterrazzo for horizontal surfaces.***

**LIXIO®** microterrazzo is a three-component system composed of a polymer mixed with a special cement-based mixture and a blend of marble aggregates (size 2/3 mm).  
Recommended thickness 6-10 mm.

#### **1 SUPPORT PREPARATION /FEATURES**

1. Substrate should remain stable and be provided with any expansion, contraction and crack inducement joints necessary as any cracking, unevenness and faults in the substrate may be reflected through surface treatment.
2. For floors subject to ordinary pedestrian traffic the substrate must have a compressive resistance of at least 25 Mpa and pull off requirements of at least 1.0 Mpa. The residual moisture content of the substrate must not exceed 4.0 %.
3. Thoroughly check the level of the substrate (tol< 2mm) . If necessary, grind the higher areas. Based on the type and condition of the substrate (concrete, sand-cement, ceramic, self-leveling...), this must be prepared by sanding, grinding, shot blasting etc. and also be clean, rough, free from contamination, intact and perfectly level. Due to the low thickness even minor unevenness can bring about serious problems.
4. The existing joints must be mirrored through to the new surface.
5. Badly damaged substrates/concrete or cracks need to be repaired prior to **LIXIO®** being

applied. Repair mortars and epoxies are used for such repairs.

6. MOVEMENT JOINTS: Form joints in substrate where necessary, with any joint in the coating to coincide with movement joints in background as architect's detail.
7. Apply on the substrate Epoxy-coat mixed with 20% quartz-sand (0,2-0,5mm) as adhesion primer and broadcast the surface with quartz-sand (0,7-1,2 mm). After 6-8 hours remove the loose excess sand.

## **2 LIXIO® APPLICATION**

The actual application thickness should be made considering that approximately 2mm of the surface will be ground to expose the aggregates in the final sanding process.  
Do not apply at temperatures over 30° or lower than 10°.

### **Mixing and colouring**

#### *Mixing ratio*

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

Keep LIXIO-FLUID and LIXIO-POWDER cool before and during the use.  
Mix the components as follows.

Pour 70% of LIXIO in the mixing-machine and slowly add the whole quantity of LIXIO-BLEND, the LIXIO-POWDER and then the remaining polymer.

Mix 2-3 minutes to loosen clumps. The quantity of LIXIO-FLUID can vary by +/- 5%.  
COLOURPACK -C (see datasheet) is the specific pigment for LIXIO. Mix 28 g /l with the polymer for a full tone, in a lesser ratio for a lighter shade. It is available in 27 colours.

After 8-12 hours (at 20°, 50% RH) and after having sanded and vacuumed the surface, the LIXIO mixture should be poured and levelled with a screed and trowel before rolling the surface with "Stencil-Roller" to smooth it. Then spray LIXIO-FLUID evenly on the surface as anti-evaporating product.(about 0,1 kg/m<sup>2</sup>).Note, very high temperatures and humidity can delay the hardening of the primer LIXIO can be walked on from 24 hours after installation.

The previously placed profiles along with suitable steel rods will help to keep the levels (steel rods to be removed immediately after pouring). Wear spiked shoes or cleats.

### **Grinding-Polishing**

Wet (recommended) or dry grinding can begin once the surface has completely set. Whichever is chosen, this should not be before 3-5 days from the application.

Use stone-polishing machines. The type of discs, number of revolutions and number of passes must be determined according to the machine used (please contact the manufacturer).



After the first two or three grinding steps, the surface will be filled with a grout composed of 1

part of LIXIO-FLUID (pigmented) and 2 parts of cement. After setting of grouting ( 1-2 days) , subsequent steps will bring LIXIO® to the desired degree of gloss.

For example, polishing process 400: G2, G120, G200, G400 (honed)

To mirror polish, additional pass with G800, polishing with salts).

### 3 SURFACE TREATMENT

LIXIO can be

1. grinded up to G 400 grit diamond pad and sealed with the water-based polyurethane sealer IDEAL PU-WB EASY (recommended) or
2. mirror-polished and treated with PETROTEX-S impregnating water-oil repellent.

The preventive treatment with IDEAL HARD or IDEAL HARD PLUS increases the surface resistance to abrasion and scratching.

### 4 GENERAL REQUIREMENTS FOR WORKMANSHIP

Before commencement of work	The contractors must make themselves familiar with and have read the latest Technical Data Sheet for the products, available on the IDEAL WORK website <a href="http://www.idealwork.com">www.idealwork.com</a>
Control samples	Samples on site to be approved .They are sole responsibility of the applicator and should be made by site operatives carrying out main works.
Uniformity of colour and texture	Once samples of coatings have been approved, do not change type or proportion of constituent materials. Ensure that supplies and batch numbers of materials are sufficient and consistent to give uniformity of colour.
Admixtures	Do not use any admixtures other than those listed.
Guarantee	Rendering materials and workmanship guarantees should be submitted to Contract Administrator prior to work commencing on site.
	<b>It is strongly recommended that this system be applied only by Ideal Work trained applicators</b>