

Specification for

IDEAL WORK LIXIO PLUS® TERRAZZO-FLOOR

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

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

Lixio PLUS® decorative terrazzo for horizontal surfaces.

The LIXIO PLUS® system includes a special primer, coloured premix “COLOURMIX”, selected marble aggregates (size 5/8mm and 8/12mm) and “LIXIO-LIQUID PLUS” multifunctional liquid admixture. On site it must be integrated only with cement 42.5 N/m² (white or grey).

Recommended thickness 20- 40 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. 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.
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 PLUS® 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 (1,0-2,0 mm). After 6-8 hours remove the loose excess sand.

2 LIXIO PLUS® 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

- | | |
|---------------------|--|
| COLOUR-MIX | <i>1 part 25 kg</i> |
| • Aggregate 5/8 mm | <i>3 parts 75 kg</i> |
| • Aggregates 8/12mm | <i>3 parts 75 kg</i> |
| • Cement 42.5N/m2 | <i>2 parts 50 kg</i> |
| • Water | <i>1 part 25 kg</i> |
| • LIXIO-LIQUID-PLUS | <i>1 litre per 25 kg of COLOUR-MIX</i> |

To obtain a better mix, add the constituents to the mixer in the following order: 50% of the aggregates with 60% of the total amount of water, followed by the COLOR-MIX and then cement. Add the LIXIO-LIQUID- PLUS, mix 3 minutes and then add the remaining 40% of water and aggregates.

Mix for a further 2-3 minutes.

It is recommended to maintain a water / cement ratio not higher than 0.48, then add 22-24 Lt of water for every 50 kg of cement.

This formulation can be varied according to the granular nature of the aggregates and construction site needs.

After 8-12 hours (at 20°, 50% RH), after having sanded and vacuumed the surface, you can apply the LIXIO® PLUS mixture with a screed followed with a bull float according to the project levels. Note very high temperatures and humidity can delay the hardening of the primer. The day after laying the material, the anti-evaporating product will be applied evenly over the entire surface as per the relative technical datasheet. LIXIO PLUS® can be walked on from 24 hours after installation.

Grinding-Polishing

Wet or dry grinding can begin once the surface has completely set. In any case, not before 3-5 days from the application.

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

After the first two grinding steps, the surface will be filled with a grout composed of Ideal Binder and water (1:1) and cement (2.0 kg/l) with the addition of oxides, coloured powders or stone dust. Subsequent steps will bring LIXIO® PLUS to the desired degree of gloss.

LIXIO® PLUS can be mirror-polished and treated with PETROTEX-S impregnating water-oil repellent, or polished with a 400-grit diamond pad and protected with the water-based polyurethane sealer IDEAL PU-WB EASY (see the relative technical datasheets). The preventive treatment with IDEAL HARD or IDEAL HARD PLUS increases the surface

resistance to abrasion and scratching.

3 SURFACE TREATMENT

LIXIO PLUS ® 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 www.idealwork.com
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.
	It is strongly recommended that this system be applied only by Ideal Work trained applicators

