HOW TO

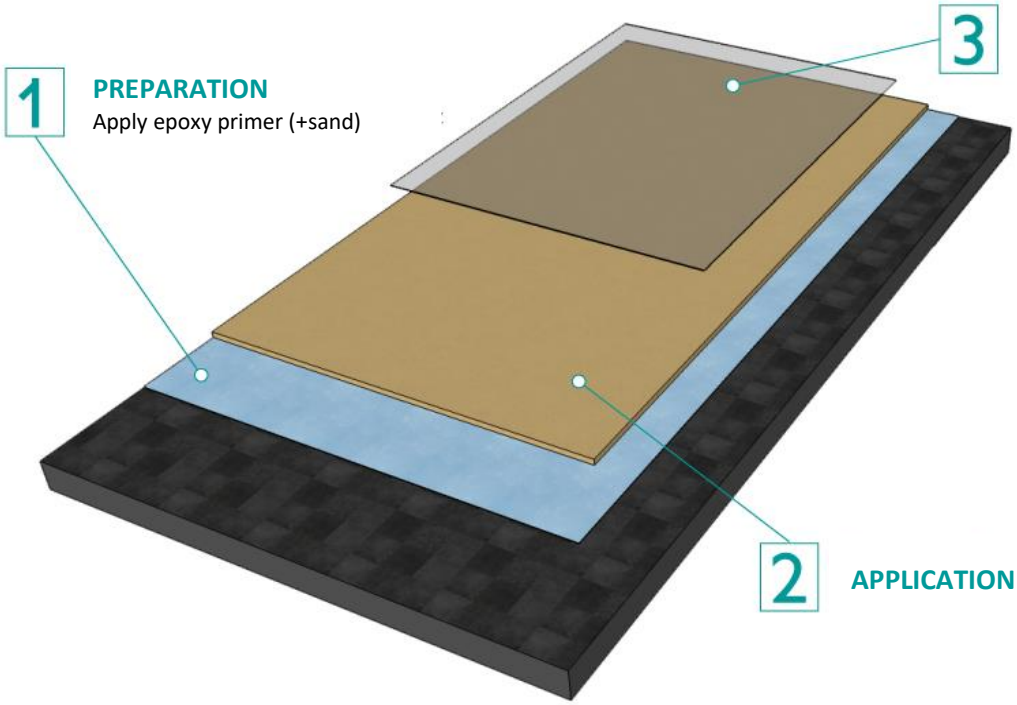
Self-leveling concrete overlays

Masters Prim Epoxy

Sand 0,8mm

Masters Self-Leveling

Maters Varnish PU Ecodur



Tools

- A **trowel-comb** to apply epoxy primer
- A **gauge rake** to evenly distribute the product without exceeding the chosen thickness
- A **Flemish trowel** to facilitate the spreading
- A **spiked roller** to remove possible bubbles
- A **stirrer** to mix
- A **mixing bucket** (flexible) to make the mixture
- **Rigid spiked overshoes** to walk on fresh product
- A **lacquer roller** to apply varnish

A question ? Contact-us
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1. Preparing the support

Preamble: *The success and the holding of a smooth concrete depends first of all on a good preparation of the support. The substrate must have a moisture content of less than 4%, use a hydrometer to check it.*

The support must be clean. Remove all traces of dust as well as any substance that may affect adhesion (paint, oil, grease, fluorescence, glue, varnish, etc...). Deteriorated, cracked, or spalled concrete must be repaired. The application temperature must be between 10°C and 30°C, and humidity below 80%.

On large floors, use a peripheral strip with a thickness of 5 mm to insulate and separate the new floor from the walls. Thus, by creating a peripheral seal, the risk of cracking is limited. On a tiled floor, it is also advisable to apply a fiberglass mesh.

Mix the 2 components of **Masters Prim Epoxy** at low speed. The mixture has a pot life of 1 hour at 20°C. Apply the primer using a trowl-comb at a rate of 350-400g/m². Carry out adherent sanding on the fresh resin, manually spraying the dry sand to refusal at a rate of 3,5 to 4 kg/m². Use spikked shoes to walk on the resin. The sand should cover the entire surface and look dry (not coated with resin). Leave to polymerize for 24 hours. Then remove loose sand by brushing and vacuuming with an industrial vacuum cleaner. The sand used as a bonding bond must be dry, uncoated, perfectly adherent and encrusted with the primer. This primer will make it possible to create a real "union point" with the existing support but also, in certain cases, to cancel the joints of the old tiles. This step is essential to avoid the appearance of bubbles.

2. Application

Preamble: *The application of this product is above all a question of organization. It requires a minimum team of 3 people (one for mixing, a second for application and a third for handling). The final result depends above all on the speed of execution. The product retains its self-leveling and self-leveling properties for 10-15 minutes. This means that the buckets should be applied as quickly as possible.*

In an empty bucket, measure 6 liters of water. Mark a mark using a marker or make a hole at this level in order to faithfully reproduce this dose of water for each of the buckets. Empty this dose of water into the mixing bucket, then gradually pour in the loads of **Masters Self-Leveling** while mixing. Mix this mixture at a speed of 300 rpm for 3 minutes, taking care to leave the turbine immersed in the product. After mixing, leave to stand for 1 minute, then mix again for 30 seconds before application, to avoid bubbles.

Quickly, apply the product evenly to the floor using the spout created by the mixing bucket. Help distribute the product towards the corners and edges using a Flemish trowel. Apply without dragging the next bucket on the edge of the product, and so on. If necessary, remove bubbles with a roller for the first 5 minutes.

Working time after mixing with water 15 minutes
Setting time: approx. 90 min

3. Protection

After 48 hours of drying (at least), proceed to varnish.

Prepare the necessary quantity of **Masters Varnish PU Ecodur** for one coat by mechanically mixing at low speed for about 2 minutes, 5 doses of base (component A) for one dose of hardener (component B).

Example: For 10sqm, mix 830mL of base (component A) and 166mL of hardener (component B).

Apply the varnish using a lacquer roller. Be careful to not leave any excess thickness. The open time of the mixture is 30-40 minutes. Apply a second coat between 12 and 24 hours after the first one. Do not exceed this time at the risk of poor adhesion.

Let it dry 48 hours before you can reuse the surface and place furniture.

Conseils et astuces

- Due to its self-leveling and self-leveling properties, smooth concrete only flows on horizontal surfaces and without slope. Thus, it is impossible to make outdoor surfaces or shower trays because water drainage cannot be done.
- Work the product as little as possible with the trowel at the risk of leaving traces.
- Take care to round the bottom of the outgoing angles in order to guard against the phenomenon of cracking at 45°.

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