Specification for

IDEAL WORK MICROTOPPING® FLOOR-COATING

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

Types of finish	Smooth concrete look.
Drawing reference	
Location/project	
Product Reference	Ideal Work MICROTOPPING® Polymer Modified Decorative Concrete.
Manufacturer Ref.	Ideal Work S.R.L, Via Kennedy 52, 31030 Valla Di RiesePioX (TV) Italy Tel: +39 0423 4535 Website: www.idealwork.com

Microtopping® decorative Concrete coating on horizontal surfaces.

MICROTOPPING® is a two-component (or three if colour is required) system composed of a polymer (not water) mixed with a special cement mixture. The powder is provided in following versions.

MICROTOPPING® BC (Base Coat) :It incorporates a 0.5mm coarse sand as a gauge to ensure the correct thickness is applied.BC provides the structural coats
MICROTOPPING® FC (Finish Coat) :It uses the same formula as BC without the coarse sand, allowing a smooth appearance.
MICROTOPPING® HP (High Performance) :It uses the same formula as BC with an intermediate grain. In provides a coarser surface than FC with an increased resistance.

Depending on the surface profile and the degree of finishing required, it is possible to use one or more coats of both products.

1 SUB-BASE 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. Ensure surface is level, sound and free from any dust, laitance, dirt, oils and or loose materials.

3. The existing joints must be mirrored through to the new surface.
4. Badly damaged substrates/concrete or cracks need to be repaired prior to **MICROTOPPING®** being applied. Repair mortars and epoxies are used for such repairs.
5. 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.
6. Apply on the substrate Epoxy-coat mixed with 20% quartz-sand (0,2-0,5mm) as adhesion primer and cover thoroughly the surface with quartz-sand. After 6-8 hours remove the lose excess sand.
7. Ideal Work **Barriera-Cem** may be required as levelling when applying **MICROTOPPING®** over an existing tiled surface.
8. Epoxy coat on Barriera-Cem provides a vapour barrier for humid substrates.

2 MICROTOPPING ® APPLICATION

1. **Preparation:**
   Agitate / mix the liquid polymer 3 minutes before use.
   Pour half the contents of the polymer into another clean bucket. Once mixed, slowly add the **MICROTOPPING®** Base Coat and mix thoroughly to ensure there are no lumps or dry spots.

2. **Application of base coat:**
   With a steel trowel, spread the first coat evenly to a maximum thickness of 0.5mm (it is important the thickness should not exceed the size of the aggregates in the cement mixture).
   Allow the system to dry for approximately 4- 8 hours (dependant on ambient temperature / humidity).
   A second coat of **MICROTOPPING®** Base Coat is recommended to achieve the best performance of the system and, if so, the same process will be undertaken. Between coats, the surface must be sanded and washed.

3. **Application of Finish Coat or of High Performance coat:**
   Agitate / mix the liquid polymer 3 minutes before use. Pour half of the contents of the polymer into another clean bucket. Once mixed, slowly add the **MICROTOPPING®** Finish Coat and mix thoroughly to ensure even dispersion and there are no lumps or dry spots.
   Apply the finish coat material in a very thin layer, with the trowel being used at a 45° angle. Cover the applied area completely and allow drying / curing to take place. Once dry, the area will need to be sanded to remove any burrs. Upon completion, the area should be vacuumed and wiped with a damp cloth to remove dust.
   If a smoother finish is required, a second finish coat layer should be applied. This will follow the same procedure as above. (Important: the overall thickness should not exceed 3mm).

4. Application of IDEAL HARD PLUS densifier to increase surface-resistance.
   Ideal Hard Plus can be applied on the surface before sealing with cloth , roller or airless to make the surface more scratch-resistance.

Colours: To achieve more colours (26 available) Colour Pack-C can be added to the liquid Polymer during the mixing phase of Ideal Work **MICROTOPPING®** white powders.

3 SEALING/PROTECTIVE COAT

1. The **MICROTOPPING®** Finish Surface must be sealed and protected . The sealer will be selected based on the intended function of the area.
   When fully dry (48-72 hours) carry out the protective treatment with IDEALPU –WB EASY, IDEALPU 78 (polyurethan sealers) or IDEAL SEALER (acrylic, for exteriors) applied by roller or with airless paint sprayer.

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 materials. Ensure that supplies and batch numbers of materials are sufficient and consistent to give uniformity of colour. Ensure uniformity of texture during application.
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