

MICROTOPPING[®]

Polymeric-cement coating system for creating seamless surfaces.

DESCRIPTION

Ideal Work Microtopping is ideal for creating seamless surfaces over existing substrates (in concrete, sand-cement screed, ceramics, self leveling surface) and for renovating old internal floors and exterior flatwork.

Its practicality and great looks make it ideal for homes, shops, showrooms, restaurants and hotels. Microtopping is not only ideal for floors but also covering vertical surfaces including plasterboard, masonry, staircases, bathtubs or shower enclosures.

USES

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

IDEAL WORK MICROTOPPING can be used to create continuous paving with a variegated finish using stains.

FEATURES

- Application in just 3 mm
- Continuous: no interruption, can be applied on floor, wall and in general on every surface and object.
- For both indoor and outdoor use
- Applicable on: ceramic, plasterboards, bricks, cement screeds, wood, stairs, bathrooms and showers.
- Resistant to UV rays and harsh weather conditions.
- Manufactured with low environmental impact.

MICROTOPPING SYSTEM

IDEAL WORK MICROTOPPING is a two-component system comprised of polymer mixed with a special cement mixture. The cement mixture is provided in three versions:

Microtopping BC - Base coat

Microtopping Base Coat uses 0.5 millimetres course sand as a gauge to ensure the correct thickness is applied.

Microtopping FC - Finish coat

Microtopping Finish Coat is the same formula without the course sand, giving a smooth appearance.

Microtopping HP - Finish coat HP (High performance)

Microtopping Finish Coat HP is designed for high abrasion resistance and intense traffic areas.

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

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, diamond ground or treated with Active-gel, a special acid-based gel that removes 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 MICROTOPPING being applied. Repair mortars and epoxies are used for such repairs.

Primers:

IDEAL BINDER + HARDENER: concrete, sand\cement screed, bricks...

EPOXY-COAT: tiles, marble, steel, wood, sand\cement screed, self-levelling

BARRIERA-CEM: potentially humid surfaces.

Contact IDEAL WORK for more information.

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 can of 17L of liquid polymer is mixed to 2 buckets of the cement component (Microtopping BC, FC or HP) \pm 5%. Indicative consumption are:

Base Coat:

Polymer 0,425 - 0,34 Lt\m²

Microtopping BC 1,25 - 1,00 Kg\m²

e.g.: 2 buckets of BC (2 x 25kg) + 1 can of Liquid Polymer (17L) = 40 - 50m²

In order to achieve the best performance of the Microtopping system we suggest applying 2 coats of Base coat.

Finish Coat:

Polymer 0,12 - 0,10 Lt\m²

Microtopping FC 0,25 - 0,20 Kg\m²

e.g.: 2 buckets of (2 x 17.5Kg) + 1 can of Liquid Polymer (17L) = 140 - 170m²

Finish Coat HP:

Polymer 0,18 - 0,22 Lt\m²

Finish Coat HP 0,45 - 0,55 Lt\m²

e.g.: 2 buckets of (2 x 21.5Kg) + 1 can of Liquid Polymer (17L) = 70 - 80m²

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

APPLICATION

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.

Application of MICROTOPPING BC (base coat)

The liquid polymer is to be kept in a cool place before and during use. It is important to mix the polymer 3 minutes before use.

Pour half the contents of the polymer into a clean bucket.

Once the liquid polymer has been completely mixed, slowly add a jar of MICROTOPPING BC into each of the buckets, mixing for about 2 minutes to remove lumps or dry spots.

Once all the materials are properly mixed, apply the mixture within 25 - 30 minutes at temperatures averaging 20°C. Distribute the first coat on the prepared surface with a 'Magic' or steel trowel. It is important that the thickness should not exceed the size of the aggregates in the cement mixture.

Let the surface dry or mature until it can be walked on. If the existing surface is very worn, in order to achieve the best performance of the system a second application of MICROTOPPING BC is recommended. Between each coat the

surface must be properly sanded. It is recommended to wear protective 'coverall' shoes during the installation and sanding to avoid soiling the surface. For large floors it is advisable to use a single brush with sandpaper or a grit sandpaper disc (60-80 grade). When finished, vacuum the surface to remove dust and wipe with a damp cloth.

Application of MICROTOPPING FC and MICROTOPPING HP

The polymer liquid is to be kept in a cool place before and during use. It is important to mix the polymer for 3 minutes before use.

Put the polymer into a clean bucket. Once the polymer has been completely mixed, slowly add MICROTOPPING FC into the buckets, mixing for about 2 minutes to remove lumps or dry spots.

Once all materials are properly mixed, apply the mixture within 15 - 20 minutes at temperatures averaging 20°C. MICROTOPPING FC should only be applied with a steel trowel.

MICROTOPPING FC is a product specially formulated to finish and must be applied in very thin layers. The trowel should be used at 45°, as in the application of Venetian Plaster. After that it is necessary to let the surface dry or mature until it is walked on.

When the Microtopping is dry, the floor will need to be sanded using between 60 and 200 grit sanding screen rather than paper, to remove any burrs.

When finished, vacuum the surface to remove dust and wipe with a damp cloth. It is recommended to wear protective 'coverall' shoes during installation and sanding to avoid soiling the surface.

A second application of MICROTOPPING FC is required if you want to get a smoother surface or if you want to create a cloud effect.

IMPORTANT

The overall thickness of the system must not exceed 3mm in thickness.

COLOUR

IDEAL WORK MICROTOPPING BC and FC are supplied in two standard colours: grey and white. To achieve more colours, the liquid polymer Colour Pack-C can be added during the mixing phase. Colour Pack-C is a liquid pigment made from UV stable pigments designed for use with IDEAL WORK MICROTOPPING. 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 hue will vary depending on the amount of product diluted in the polymer and the type (white or grey) of MICROTOPPING used.

Dosage

One package of Colour Pack-C should be mixed in one box of liquid polymer (17L) or 28 grams with 1 Lt of Polymer. If different shades of colour are required, add smaller quantities of Colour Pack-C to the liquid polymer. In this case, especially 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 polymer needed to implement the work before you start mixing the cement bases (MICROTOPPING BC and FC).

MATURATION

Once the application is completed, leave the surface to mature for a period of 4-8 hours between applications and for 24 hours before allowing foot traffic.

Important

For better curing, it is very important to ensure good air circulation in the working environment. Humidity levels above 70% can delay the curing of Microtopping.

TECHNICAL NOTES

Microtopping flooring is applied manually and it must therefore be understood and accepted that there may be slight unevenness and minor defects due to the fact of working with a "semi-plastic" material. Microtopping is a handmade product, unique and not mass-produced, and so any differences and/or the hues of colours and/or colour concentration must be seen as a valuable element of the work, not an imperfection.

COATING

After 4-5 days, once MICROTOPPING is cured, the application of a protective sealer or coating is recommended.

Do not seal if the surface is still wet or not completely dry.

The type of sealer should be chosen with consideration to the amount of traffic anticipated and the environment. Recommended sealers include, Ideal PU WB, Ideal PU78 and Ideal Sealer. These products are applied by short pile rollers, sprayers or wax spreaders. Contact IDEAL WORK for technical information.

MAINTENANCE

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

- Wash the floor with a neutral ph.
- Do not under any circumstances use corrosive products.
- Every 3 - 4 months you should apply a new coat of Ideal Wax.

PACKAGING

IDEAL WORK MICROTOPPING BC, FC and HP are distributed in packs of 25kg. 17.5kg and 21,5Kg respectively.

The liquid polymer is distributed in packs of 17L.

STORAGE

Store in a cool and safe place at a temperature of 15 - 20°C.

Keep containers tightly sealed. The shelf life of the polymer is at least 12 months and the duration of MICROTOPPING BC, FC and HP is 12 months.

PRECAUTIONS

Ideal Work Microtopping is not intended for public use, it is intended for use by experienced and trained concrete 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 one. The data contained can be changed at any time. Ideal Work products are for professional use 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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