

## MICRO-TOPPING SYSTEM

Polymeric-cement coating system for creating seamless surfaces.

### DESCRIPTION

Ideal Work Micro-topping is ideal for creating seamless surfaces over existing substrates (in concrete, sand-cement screed, ceramics, selflevelling surface) and for renovating old floors, both interior and exterior.

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

Ideal Work Micro-topping is also a protective concrete coating protecting against freeze thaw and salt corrosion. Micro-top has high abrasion resistance, flexural and compressive properties that make it the perfect product for concrete renovations.

### USES

- Residential
- Shops and showrooms
- Hotels and restaurants
- Shopping centres
- Pool borders

IDEAL WORK MICRO-TOPPING is ideal for the realisation of continuous paving with existing clouds or acidic media.

### ADVANTAGES

- Excellent adhesion.
- Excellent resistance to high traffic.
- Retards the penetration of water and de-icing salts.
- Resistant to UV rays and harsh weather conditions.
- Manufactured with low environmental impact because it is formulated on the basis of water.

### IDEAL WORK'S MICRO-TOPPING SYSTEM

IDEAL WORK MICRO-TOPPING is a two-component system composed of a polymer mixed with a special cement mixture. The cement mixture is provided in two versions:

#### **Micro-topping BC - Base coat**

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

#### **Micro-topping FC - Finish coat**

Micro-top Finish Coat is the same formula only without the course sand, giving a smooth appearance.

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

The surface is treated differently depending on whether the existing substrate 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 layer of the concrete surface to ensure complete adhesion to a sound substrate.

Badly damaged concrete or cracks need to be repaired prior to MICRO-TOPPING being applied. Repair mortars and epoxies are used for such repairs.

**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 (Micro-topping BC or FC).

### Indicative consumption

#### **Base Coat:**

Polymer 0,425 - 0,34 Lt/m<sup>2</sup>

Microtopping BC 1,25 - 1,00 Kg/m<sup>2</sup>

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

**In order to achieve the best performance of the Micro-topping system we suggest to apply 2 coats of Base coat.**

#### **Finish Coat:**

Polymer 0,12 - 0,10 Lt/m<sup>2</sup>

Microtopping FC 0,25 - 0,20 Kg/m<sup>2</sup>

e.g.: 2 buckets of (2 x 17.5Kg) + 1 can of Liquid Polymer (17L) = 140 - 170m<sup>2</sup>

Consumption may vary depending on the existing support and the desired finish.

## APPLICATION

The temperature before any mixture and laying of the material should be between 10°C and 28°C. Do not use in the case of extreme temperatures or in windy conditions.

### **Application of MICRO-TOPPING 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 another clean bucket.

Once the liquid polymer has been completely mixed, slowly add a jar of MICRO-TOPPING 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 in 25 - 30 minutes at temperatures averaging about 20°C. Distribute the first coat on the surface prepared with a Magic or steel trowel. The material should be shaved up to a maximum thickness of 1.5mm. 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 is walked on. If the existing surface is very worn, in order to achieve the best performance of the system, a second application of MICRO-TOPPING BC is recommended. Between each coat the surface must be

properly sanded. It is recommended to wear shoes during the cover 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 (36-60 grade). When finished, you should vacuum the dust and wipe the surface with a damp cloth.

#### **Application of MICRO-TOPPING FC (finish coat)**

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 half the polymer contents into another clean bucket.

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

Once all materials are properly mixed, apply the mixture in 25 - 30 minutes at temperatures averaging about 20°C. MICRO-TOPPING FC should be applied only with a steel trowel.

MICRO-TOPPING FC is a product specially formulated to finish; because of this, it 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 Micro-topping is dry, the floor will need to be sanded using between 60 to 200 grit sanding screen rather than paper, in order to remove any burrs.

When finished, you should vacuum the dust and wipe the surface with a damp cloth. It is recommended to wear shoes during cover installation and sanding to avoid soiling the surface.

A second application of MICRO-TOPPING 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 package must not exceed 3mm in thickness.**

#### **COLOUR**

IDEAL WORK MICRO-TOPPING BC and FC are supplied in two standard colours: grey and white. To get more colours, the liquid polymer Colour Pack-C can be added during the mixing phase.

Colour Pack-C is a water-based paint made from UV stable pigments designed for use with IDEAL WORK MICRO-TOPPING. Thanks to its dispersant action, Colour Pack-C is able to create a uniform colour.

Colour Pack-C is available in 17 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 MICRO-TOPPING used.

#### **Dosage**

One package of Colour Pack-C should be mixed in a box of liquid polymer (17L). 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, you will need to pay close attention to the dilution ratio chosen.

Note: We recommend to colour the amount of polymer needed to implement the work before you start mixing the cement bases (MICRO-TOPPING BC and FC) in order to obtain uniform colour throughout the floor.

#### **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.

## COATING

Once the MICRO-TOPPING is cured, the application of a protective sealer or coating is recommended.

The type of sealer should be chosen according to the amount of traffic and the environment. The sealers recommended include Ideal Sealer, Ideal PU73, Ideal PU78 and Ideal Cera. These products are applied by short pile rollers, sprayers or wax spreaders.

MICRO-TOPPING is outstanding for its attractiveness in addition to its strength and the fact that it is quick and easy to apply, maintain and clean.

MICRO-TOPPING is not just a decorative product. It can also be successfully used in an industrial environment. It has excellent resistance to UV rays and to climatic stress, plus high resistance to even intense traffic, making it suitable for protecting horizontal or vertical concrete surfaces exposed to vehicular traffic or the elements.

## MAINTENANCE

**IMPORTANT:** MICRO-TOPPING 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 MICRO-TOPPING BC and FC are distributed in packs of 25kg and 17.5kg, respectively.

The liquid polymer is distributed in packs of 17L.

## STORAGE

Store in a cool and safe 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 MICRO-TOPPING FC and BC is 6-8 months.

## PRECAUTIONS

Ideal Work Colour Hardener is not intended for public use, it is intended for use by experienced and trained concrete contractors. The product is cement-based 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 periodical training for its customers on demand. Anyone who uses these products without qualification takes all the associated risks.

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