

Mapefloor Finish 50 N

Two-component aliphatic transparent polyurethane finish for absorbent surfaces

WHERE TO USE

Mapefloor Finish 50 N has been specially developed to form a transparent, semi-gloss, protective, anti-dust, abrasion-resistant film, to be applied directly on both concrete floors and epoxy coatings in **Mapefloor I 500 W** or on cementitious floors produced from **Ultratop**.

Some application examples

- Anti-dust and non-slip finish for concrete floors and **Ultratop** floors.
- Final treatment for absorbent resin surface finishes such as **Mapefloor I 500 W** applied to industrial concrete floors for warehouses, supermarkets, the food, chemical, engineering and pharmaceutical industries, hospitals, exhibition centres and showrooms.

TECHNICAL CHARACTERISTICS

Mapefloor Finish 50 N is a semi-gloss, two-component finish. It is based on polyurethane, aliphatic, solvent free resin which does not yellow, developed in the MAPEI R&D Laboratories.

Mapefloor Finish 50 N may be applied with a roller, in layers from 60 µm to 100 µm. When it has set, an extremely hard-wearing layer is formed. If a non-slip finish is required, **Mapefloor Finish 50 N** may be mixed with 5-10% by weight of **Mapefloor Filler**.

Mapefloor Filler is made up of micrometric-fillers of extremely hard-wearing material.

When **Mapefloor Finish 50 N** is applied directly onto

the concrete substrate, it gives a darker wet-look effect to the floor.

RECOMMENDATIONS

Do not apply **Mapefloor Finish 50 N** to:

- wet or damp surfaces;
- dusty, crumbling or uneven surfaces;
- non-absorbent surfaces.

Apply **Mapefloor Finish 50 N**:

- homogeneously and in a uniform thickness;
- with a medium or long-haired roller on clean concrete substrates;
- with a smooth mohair-type roller on **Mapefloor I 500 W** or **Ultratop**.

It is recommended not to mix more than one pack of **Mapefloor Finish 50 N** in a single container.

APPLICATION PROCEDURE

Preparation of the substrate

Mapefloor Finish 50 N must be applied on **Mapefloor I 500 W** only if the coating is perfectly dry and set.

Concrete substrates must be clean, free of oil and grease and any other uneven or loose parts.

When **Mapefloor Finish 50 N** is applied on **Ultratop**, abrade the surface of the **Ultratop** beforehand using

| TECHNICAL DATA (typical values) | | |
|---|---------------------------------------|--------------|
| PRODUCT IDENTITY | | |
| | component A | component B |
| Colour: | transparent | transparent |
| Appearance: | opalescent liquid | clear liquid |
| Brookfield viscosity (mPa·s): | 2300 | 52 |
| Density (g/cm³): | 1.03 | 1.05 |
| APPLICATION DATA (at +23°C - 50% R.H.) | | |
| Mixing ratio: | component A : component B = 4.9 : 5.1 | |
| Colour of the mix: | transparent | |
| Consistency of the mix: | fluid | |
| Dry solids content (%): | 65 | |
| Density of the mix (kg/m³): | 1,040 | |
| Viscosity of the mix (mPa·s): | 345 | |
| FINAL PERFORMANCES | | |
| Buchholz hardness (DIN 53153) (after 7 days at +23°C): | 111 | |
| Dust dry (at +23°C and 50% R.H.): | 6 hours | |
| Set to light foot traffic (at +23°C and 50% R.H.): | 24 hours | |
| Complete setting time: | 7 days | |
| Taber Test (after 7 days at +23°C and 50% R.H., 1,000 cycles/1,000 g, CS 17 grinder) (DIN 53109) (mg): | 60 | |

a fine-mesh sander or 100-grain sandpaper. Vacuum off all remaining dust.

Preparation of the product

Pour all the contents of component B into the container with component A. Mix the two components together using a drill with a mixing attachment at low speed until they are completely blended.

Non-slip treatment

If a non-slip effect to **Mapefloor Finish 50 N** is required, add 5-10% by weight of **Mapefloor Filler**, using a blender, while stirring slowly. Keep stirring for a few minutes until a completely homogenous mix is obtained.

In this case we recommend that the product is stirred continuously to prevent separation of the filler.

Application of the product

Mapefloor Finish 50 N, with or without the non-slip additive, is applied in the same way, by using a smooth or medium haired roller on concrete surface (if used for impregnating) or with a smooth mohair-type roller on **Mapefloor I 500 W** and **Ultratop**.

2 days after application, and at a temperature of +23°C, surfaces with **Mapefloor Finish 50 N** are ready traffic.

Cleaning

Tools used for the preparation and application of **Mapefloor Finish 50 N** must be cleaned immediately after use with ethanol. Once the product has set, it may only be removed by mechanical means.

CONSUMPTION

0.08-0.3 kg/m² per coat according to the absorbency of the surface.

PACKAGING

10 kg unit:

- component A = 4.9 kg;
- component B = 5.1 kg.

STORAGE

The product can be stored for 12 months

in its original packaging at a temperature between +5°C to +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor Finish 50 N (component A and B) may cause sensitization if it comes into contact with the skin. When applying the product, we recommend the use of protective gloves and goggles and to take the usual precautions for handling chemical products. We also recommend working in well ventilated areas. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

Mapefloor Finish 50 N component A is hazardous to aquatic life. Do not dispose of these products in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

**All relevant references
for the product are available
upon request and from
www.mapei.com**

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