# MAPEFLOOR FINISH 460 ME

**Two-component coloured polyurethane aliphatic finish, elastic, resistant to wear and UV rays**



## DESCRIPTION

**Mapefloor Finish 460 ME** is a two-component, elastic, coloured, polyurethane aliphatic finish with excellent resistance to wear and UV rays, used as a topcoat for indoor and outdoor elastic broadcast resin systems.

## TECHNICAL CHARACTERISTICS

- High resistance to wear
- Excellent resistance to UV rays
- Excellent resistance to weathering
- Good chemical resistance to de-icing salts, oils, and fuel in general
- Elastic
- Easy to apply

## ADVANTAGES

- Suitable for outdoor surfaces
- Thanks to the availability in different colours, it is possible to distinguish areas with different intended uses
- It improves the ease of cleaning and maintenance of the treated surfaces.

## WHERE TO USE

**Mapefloor Finish 460 ME** is used as a topcoat for indoor and outdoor waterproof broadcast resin systems, even elastic, made, for instance, with **Mapefloor PU 400 LV**, **Mapefloor PU 406** and **Mapefloor PU 410**, after broadcasting them in excess with quartz sand.

**Mapefloor Finish 460 ME** can also be used as a coloured finish for specific elastic polyurethane waterproofing membranes applied on bridges and walkways.

**Mapefloor Finish 460 ME** is therefore mainly used in situations such as:

- carpark top decks areas
- multi-deck carparks

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- garages
- sidewalks
- ramps
- bridge walkaways
- areas stressed by vehicular traffic in general.

## COLOURS

**Mapefloor Finish 460 ME** is available in various RAL colours. Please contact Mapei's Technical Assistance for a full list of the colours available. In case of a very bright colour, it is suggested to carry out a preliminary test.

## RECOMMENDATIONS

- Do not apply **Mapefloor Finish 460 ME** on cementitious substrates with a moisture content higher than 4% or with capillary rising damp (contact MAPEI Technical Services Department).
- Do not dilute **Mapefloor Finish 460 ME** with solvent or water.
- Do not apply **Mapefloor Finish 460 ME** on dusty or crumbling substrates.
- Do not apply **Mapefloor Finish 460 ME** on substrates with oil, grease or stains in general.
- Do not mix partial quantities of the components to avoid mixing errors; the product may not harden correctly.
- Do not expose the mixed product to sources of heat.
- The surface of the resin systems made with **Mapefloor Finish 460 ME** may change colour if it comes into contact with aggressive chemicals. A change in colour, however, does not mean that it has been damaged by the chemical.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor Finish 460 ME**.
- If rooms where the product is being used need to be warmed up, do not use heaters that burn fossil fuels, otherwise the carbon dioxide and water vapour given off into the air will affect the shine on the finish and ruin its appearance. Use electric heaters only.
- Use suitable specific cleaning equipment and detergent to clean the coating, depending on the type of dirt or stain to be removed.
- Protect the product from water for at least 24 hours after application.
- The temperature of the substrate during application and hardening must be at least 3°C above the dew point and the relative humidity of the air must be max. 80%.

## APPLICATION PROCEDURE

### Substrate preparation

**Mapefloor Finish 460 ME** is applied on hardened resin systems broadcast in excess with quartz sand, for instance **Mapefloor PU 410, Mapefloor PU 406** or **Mapefloor PU 400 LV**, after removal of the excess sand.

The surface of the substrate must not have crumbled or detached parts and must be clean, dry, without any dust, grease, oil, dirt or any further contaminant which could affect the adhesion of the product.

### Preparation of the product

Stir components A and B separately, then add the contents of component B to the container of component A and mix with a low-speed electric mixer (300-400 rpm) for at least 2 minutes, until a homogeneous mixture is achieved. Do not overmix the product to avoid entraining too much air. Pour the mixture into a clean container and briefly mix again. Apply the mixture within the pot life indicated in the data table. Higher surrounding temperatures will reduce the pot life, while lower temperatures will increase it.

### Application of the product

**Mapefloor Finish 460 ME** can be evenly applied in a single layer by roller, taking care of crossing the rollings, or pouring it on the surface and spreading it by steel trowel scratching to zero. Once the product is applied, it is possible to back-roll with a short pile roller to remove the trowel marks.

## CLEANING

Clean tools used to mix and apply the product with polyurethane thinners before it hardens. Once hardened the material may only be removed mechanically.

## CONSUMPTION

Consumption depends on the roughness of the substrate, the surrounding temperature and the type of tool used to apply the product. The figures indicated are for application on a substrate at a temperature between +15°C and +35°C. Lower temperatures increase the consumption rate and hardening time of the product.

Theoretical consumption:
0.2-0.5 kg/m² depending on the selected system (We recommend carrying out preliminary tests to verify the true consumption rates of the product).

## PACKAGING

20 kg kits (A+B)

- Component A: 14 kg
- Component B: 6 kg.

## STORAGE

12 months in its original, sealed packaging, in a covered, dry place at a temperature between +15°C and +35°C. Protect from frost.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.ae.

## TECHNICAL DATA (typical values)

| PRODUCT IDENTIFICATION | Comp. A | Comp.B |
|---|---|---|
| **Consistency:** | liquid | liquid |
| **Colour:** | Various RAL colours | transparent |
| **Brookfield viscosity at +23°C (mPa·s):** | 4,500 / 6,500 (rotor 5 - 50 revs) | 1,500 (rotor 2 - 50 revs) |
| **Density (g/cm³):** | 1.6 | 1.08 |

| APPLICATION DATA (at 23°C - 50% R.H.) | |
|---|---|
| **Mixing ratio by weight:** | comp. A : comp. B = 70 : 30 |
| **Colour of mix:** | RAL colours |
| **Consistency of mix:** | fluid paste |
| **Density of the mix:** | 1,400 **(g/cm³)** |
| **Viscosity of mix:** | 1,800 (mPa·s) (# 5 – 50 rpm) |

| | |
|---|---|
| Pot life of mix: | approx. 60 mins. |
| Dry, 150 microns on glass: | approx. 90 mins. |
| Application temperature (refers to ambient, material and substrate): | +10°C to +35°C |
| Set to light foot traffic: | 24 hours |
| Final hardening time: | 3 days |

| FINAL PERFORMANCE (at 23°C - 50% R.H.) | | |
|---|---|---|
| **Main characteristics** | **Test method** | **Typical values** |
| Shore A Hardness (7 days): | ASTM D2240-15: 2021 | 86 |
| Taber Abrasion Resistance (7 days): | ASTM D4060-25 | 32 mg |
| Tensile Strength (7 days): | ASTM D412-16: 2021 | 6.22 $N/mm^2$ |

## IMPORTANT NOTES

*While we try to ensure that any advice, recommendations, or information in our literature is accurate and correct, we have no control over the circumstances in which our product is used. It is, therefore, important that installers satisfy themselves that the product and conditions are suitable for the envisaged application. No warranty can be given, nor can responsibility be accepted, other than the product we supply will meet our written specifications. The installer should ensure that our latest product data and safety information sheets have been consulted before use.*

***Please refer to the current version of the Technical Data Sheet, available on our website www.mapei.ae.***

## LEGAL NOTICE

***The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents. The resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website, www.mapei.ae.***

*ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDE THE RESPONSIBILITY OF MAPEI.*

All relevant product references are available upon request and at www.mapei.com.

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