

MAPEFLOOR FINISH 450 ME

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



WHERE TO USE

Thanks to its flexibility, extremely simple application procedure and high resistance to abrasion and UV rays, **Mapefloor Finish 450 ME** is recommended as a protective finish for surfaces coated with **Mapefloor PU 410** and for protecting surfaces for outdoor car parks floors (**Mapefloor Parking System HD**, **Mapefloor Parking System ED** and **Mapefloor Parking System WD**)

Some application examples

- Protective, wear-resistant finish for external waterproof systems made using **Mapefloor Finish 415 ME** or **Mapefloor PU 400** or **Mapefloor PU 400 LV** preliminary broadcast with quartz sand.
- Coloured finish for bridges and walkways after applying flexible polyurethane waterproofing membranes.

TECHNICAL CHARACTERISTICS

Mapefloor Finish 450 ME is a two-component, aliphatic, elastic polyurethane finish that offers high resistance to wear, abrasion, and UV rays. Surfaces treated with **Mapefloor Finish 450 ME** also have an attractive finish.

Mapefloor Finish 450 ME has the following characteristics:

- Good level of elasticity
- High resistance to wear and abrasion
- Excellent resistance to UV rays
- Excellent resistance to atmospheric agents
- Available in RAL colours. For the complete range of colours please contact MAPEI Regional Head Office.

Thanks to its high resistance to UV rays and weathering, **Mapefloor Finish 450 ME** is ideal for use in external environments.

RECOMMENDATIONS

- Workability of the product is influenced by the surrounding temperature and the temperature of the substrate. Pot life varies according to the surrounding temperature and reduces as the temperature increases. We recommend, therefore, preparing only the quantity of material that can be applied within the pot life.
- Do not apply **Mapefloor Finish 450 ME** if the moisture content in the substrate is higher than 4%.
- Only apply **Mapefloor Finish 450 ME** if the temperature of the substrate is at least 3°C higher than the dew-point temperature.
- Protect the product from water for at least 24 hours after application.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates with a polyurethane elastic membrane

Substrates to be coated must be structurally sound and free of loose parts, dust, dirt, grease, oil and any other material or substance that could compromise the adhesion of the finish to the substrate.

Preparation of the product

Mix the two components separately with an electric mixer at low speed. Then pour component B into the container of component A and mix for several minutes until they are completely blended. Only prepare the quantity that can be applied within the pot life (approximately 40 minutes at +23°C).

Application of the product

Mapefloor Finish 450 ME may be applied in a single coat with a roller or with straight steel or rubber trowel. If the finish is applied with a roller, we recommend applying the product with criss-cross strokes to make sure that it is applied evenly to get a good, attractive finish. If the finish is applied with a rubber trowel, consumption will be lower and the surface will be rougher.

Cleaning

Tools used to mix and apply the product may be cleaned with thinners for polyurethane before it hardens. Once hardened, it 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

Component A: 18.90 kg.

Component B: 3.60 kg.

STORAGE

Store the product in a covered, dry place at a temperature of between +15°C and +35°C. The product may be stored for 12 months in such conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

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

TECHNICAL DATA (typical values)

PRODUCT IDENTIFICATION		
	Component A	Component B
Colour:	RAL colours	transparent, colourless
Appearance:	liquid	liquid
Brookfield viscosity at +23°C (mPa·s):	3000/4000	190/350
Density (g/cm ³):	1.25/1.35	1.06/1.12

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio:	comp. A:comp. B = 84:16
Colour of mix:	RAL colours
Consistency of mix:	fluid paste
Density of mix (kg/m ³):	1,250
Viscosity of mix (mPa·s):	1000/3000
Pot life:	4 hours
Application temperature:	from +10°C to +35°C
Set to foot traffic:	24 h
Final hardening time:	3 days
FINAL PERFORMANCE	
Shore A hardness (ASTM D2240):	85
Tear strength after 7 days at +23°C + 14 days at +50°C (ASTM D624) (N/mm):	65
Tensile strength after 7 days at +23°C + 14 days at +50°C (ASTM D412) (N/mm ²):	13
Taber abrasion resistance (CS17 disk - 1000 g - 1000 revs) after 7 days at +23°C (ASTM D4060)(mg):	130 mg
Elongation (ASTM D412) (%):	>50

IMPORTANT NOTES

Whilst we try to ensure that any advice, recommendations or information given 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 or responsibility accepted other than, that the product supplied by us will meet our written specification. The installer should ensure that our latest product data and safety information sheets have been consulted prior to use.

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

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into other project-related documents, but 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 EXCLUDES THE RESPONSIBILITY OF MAPEI.

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

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