



Mapefloor Finish 415

**Two-component,
aromatic coloured,
flexible, wear-resistant
polyurethane finish**



WHERE TO USE

Thanks to its flexibility, extremely simple application procedure and high resistance to abrasion, **Mapefloor Finish 415** is recommended as a protective finish for surfaces coated with **Mapefloor PU 410** and for protecting surfaces for indoor car-parks floors (**Mapefloor Parking System ID**).

Some application examples

- Protective, wear-resistant finish for internal protective and waterproof systems produced using polyurethane membranes of **Mapefloor PU 410**, preliminary broadcast with quartz sand.

TECHNICAL CHARACTERISTICS

Mapefloor Finish 415 is a two-component, aromatic, coloured, flexible polyurethane finish with excellent resistance to wear and abrasion.

Mapefloor Finish 415 has the following characteristics:

- attractive finish;
- good level of elasticity;
- excellent coverage;
- high resistance to wear and abrasion;
- easy application;

- good resistance to chemicals, oils or carburants in general.

RECOMMENDATIONS

- Workability of the product is influenced by the surrounding temperature and by the temperature of the substrate. The workability time varies according to the surrounding temperature and reduces as the temperature increases. We recommend, therefore, preparing only the quantity required within the maximum workability time, as indicate of in the table.
- Do not apply **Mapefloor Finish 415** on damp substrates or on substrates with capillary rising damp (please contact our Technical Services Department).
- Do not dilute **Mapefloor Finish 415** with solvent or water.
- Do not apply **Mapefloor Finish 415** on dusty or crumbling substrates.
- Do not apply **Mapefloor Finish 415** on substrates with oil or grease stains 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.



TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	comp. A	comp. B
Colours:	RAL 1003 - RAL 3011 - RAL 5007 - RAL 5015 - RAL 6017 - RAL 7000 - RAL 7011 - RAL 7035	brown
Consistency:	thick liquid (paste)	liquid
Brookfield viscosity at +23°C (mPa-s):	8,000-10,000 (# 4 - 10 rpm)	70-110 (# 1 - 50 rpm)
Density (g/cm³):	1.40	1.20
APPLICATION DATA (at +23°C - 50% R.H.)		
Mixing ratio:	comp. A : comp. B = 80 : 20	
Colour of mix:	coloured	
Consistency of mix:	liquid / paste	
Density of mix (kg/m³):	1.35	
Viscosity of mix (mPa-s):	2,000-2,500	
Pot life at +23°C (gel time):	50 mins.	
Dust dry at +23°C:	90 mins.	
Application temperature:	from +10°C to +30°C	
Set to foot traffic at +23°C:	24 h	
Final hardening time at +23°C:	3 days	
FINAL PERFORMANCE		
Elongation at failure after 7 days at +23°C: (DIN 53504) (%):	70	
Tear strength after 7 days at +23°C: (DIN 53515) (N/mm):	90	
Tensile strength after 7 days at +23°C: (DIN 53504) (N/mm²):	15	
Taber abrasion resistance (CS17 disk - 1,000 g - 1,000 revs) after 7 days at +23°C (mg):	100	
Shore A hardness (DIN 53505):	90	
Shore D hardness (DIN 53505):	65	

- Coatings made from **Mapefloor Finish 415** change colour or fade if exposed to sunlight but this has no effect on its performance characteristics.
- The coating may also 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.
- If rooms where the product is being used need to be warmed up do not use heaters that burn hydrocarbons, 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.
- Only apply **Mapefloor Finish 415** if the temperature of the substrate is at least 3°C higher than the dew-point temperature.

Colours: RAL 1003 - RAL 3011 - RAL 5007 - RAL 5015 - RAL 6017 - RAL 7000 - RAL 7011 - RAL 7035.

For further colours please contact our offices.

APPLICATION PROCEDURE

Preparation of the substrate

Substrates with a polyurethane elastic membrane

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

Only apply **Mapefloor Finish 415** on **Mapefloor PU 410** once it has hardened and after having broadcast the surface with quartz sand (0.1-0.5 mm or 0.3-0.9 mm quartz, depending on the degree of non-slip finish required) and removing all excess sand.

Preparation of the product

Mix each of the two components of **Mapefloor Finish 415** separately with an electric mixer at low speed. Pour component B into the container of component A, and mix again for a few minutes until completely blended.

Application of the product

Apply **Mapefloor Finish 415** in a single coat with a roller or a straight steel or rubber trowel. If the finish is applied with a roller, we recommend applying the product with criss-cross strokes and to make sure that it is applied evenly to get a good, attractive finish. If the finish is applied with a rubber trowel, the consumption and the hiding power will be lower and the surface

will be rougher compared with application with a steel trowel.

If **Mapefloor Finish 415** hardens in surroundings with more than 60% air R.H. the surface of the product may become lightly textured, but this has no effect on its performance characteristics.

Cleaning

Tools used to mix and apply the product may be cleaned with thinners for polyurethane products 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 of between +15°C and +25°C. Lower temperatures increase the consumption rate and hardening time of the product.

Theoretical consumption: 0.5-0.8 kg/m² (we recommend carrying out preliminary tests to verify the real consumption rate according to the particle size of the sand used to broadcast with quartz sand the surface).

PACKAGING

12.5 kg kit:
 – component A: 10 kg;
 – component B: 2.5 kg.

STORAGE

Store the product in a covered, dry place at a temperature of between +15°C and +25°C. The product may be stored for 12 months in such conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor Finish 415 component A is not considered hazardous according to current norms and guidelines regarding the classification of mixtures.

Mapefloor Finish 415 component B irritates the eyes, skin and respiratory system. Harmful if inhaled and may cause irreversible damage with prolonged use. May cause sensitisation if it comes into contact with the skin or if inhaled to those sensitive to isocyanates. When applying the product, we recommend using protective clothing, gloves, safety goggles, a safety mask to protect the respiratory system and to work only 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.

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 ONLY 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