MAPEFLOOR FINISH 52 W

Two-component, water-based, transparent matt polyurethane finish





DESCRIPTION

Mapefloor Finish 52 W is a two-component polyurethane, water based, transparent matt finish according to a formula developed in the MAPEI R&D laboratories.
When hardened, **Mapefloor Finish 52 W** improves the wear resistance of the treated surfaces and makes regular cleaning and maintenance operations easier.

TECHNICAL CHARACTERISTICS

- water-based;
- good wear resistance;
- matt finish;
- very low yellowing;
- does not significantly alter the colour of the treated light coloured substrates;
- when applied on concrete substrates **Mapecoat Finish 52 W** complies with the principles defined in EN 1504-9 ("Products and systems for protecting and repairing concrete structures. definitions, requirements, quality control and conformity evaluation - General principles for the use and application of systems") and with the requirements of EN 1504-2 ("Products and systems for the protection and repair of concrete") for class: products for protecting surfaces – coating (C) – moisture control (MC) + increasing resistivity by limiting moisture content (IR).

ADVANTAGES

- easy to apply;
- it improves the wear resistance of the cementitious and resinous systems on which it is applied;
- it reduces dust formation and liquids absorption of the treated cementitious substrates;
- odourless during application and hardening;
- a slip resistant finish may be obtained by adding **Mapefloor Filler**.

WHERE TO USE

Mapefloor Finish 52 W is used as finish layer for:

- self-levelling cementitious systems made with **Ultratop** or **Ultratop Living**;

- decorative cementitious systems made with **Ultratop Loft**;
- resin-based systems such as, for example, **Mapefloor System 53** and **Mapefloor System 33**.

Mapefloor Finish 52 W is also used as dust proof and oil repellent treatment for concrete floors and for exposed concrete, without giving any "wet effect".

RECOMMENDATIONS

- Do not apply **Mapefloor Finish 52 W** on dusty, crumbling or weak substrates or that have not been prepared as specified and primed.
- Do not apply **Mapefloor Finish 52 W** on substrates with oil or grease stains or dirt in general.
- When applied on dark coloured cement or resinous substrates it may show light whitish streaks. Carry out preliminary tests.
- 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.
- If rooms where the product is being used need to be warmed up, do not use heaters that burn fossil fuels. The carbon dioxide and water vapour given off into the air will affect the finish of the coating. Use electric heaters only.
- Protect the product from water for at least 24 hours after its application.
- Do not dilute **Mapefloor Finish 52 W** with organic solvents.
- The coating may change colour if it comes into contact with aggressive chemicals. An aesthetical change, however, does not mean that it has been damaged by chemicals.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor Finish 52 W**.
- Use suitable specific cleaning equipment and detergent to clean the product, depending on the type of dirt or stain to be removed.
- The temperature of the substrate during the application and the hardening must be at least 3°C above the dew point and the relative humidity of the air must be max. 80%.

APPLICATION PROCEDURE

Preparation of the substrate

Mapefloor Finish 52 W can be applied on concrete surfaces and both new and existing cementitious or resin systems. The substrate must be hardened, dry, perfectly clean, free from oils, dust, greasy substances and/or any contaminant before the application of the product.

For all the substrates consisting of resin systems older than 24 hours it is necessary to abrade their surface by means of suitable sanding machine with fine abrasive discs (200-300 grit) or with a fine graded abrasive pad.

The application of **Mapefloor Finish 52 W** on cementitious systems from the **Ultratop** range must be carried out after the complete hardening of the cementitious material (depending on the thicknesses and temperature) and must be preceded by accurate sanding.

Thoroughly remove all dust by vacuum before the application of the products.

Preparation of the product

Pour all the content of component B into the container of component A and mix with a low-speed electric mixer for at least two minutes until they are completely blended. We recommend preparing only the quantity that may be applied within the maximum workability time indicated in the table.

For applications on concrete substrates or supports made with products from the **Ultratop** range, dilute **Mapefloor Finish 52 W** 1:1 b.w. with clean water.

If a slip resistant property is required to the **Mapefloor Finish 52 W**, add while mixing 1-3% by weight of the special micrometric **Mapefloor Filler**. In this case, it is recommended to stir the product frequently in the container during the application phase to avoid the sedimentation of **Mapefloor Filler**.

Application of the product

Apply **Mapefloor Finish 52 W** evenly in two or more layers by short-pile roller (such as mohair) or by airless spray. The roller application must be carried out taking care to cross the rolls in each coat.

Make sure rooms are well ventilated to help the product dry.

Using **Mapefloor Finish 52 W** with **Mapefloor Filler** added on dark-coloured substrates may accentuate the appearance of whitish streaks. Preliminary test is recommended.

CLEANING

Tools and equipment used to prepare and apply **Mapefloor Finish 52 W** must be cleaned with plenty of water immediately after use. After hardening, the product may only be removed using mechanical means.

CONSUMPTION

50-150 g/m² per coat, depending on the characteristics of the substrate.

PACKAGING

Kit 5.4 kg (A+B):

- component A: 4.7 kg;
- component B: 0.7 kg.

STORAGE

12 months in its original, sealed packaging, in a dry place and at a temperature between +12°C and +30°C. Protect from frost.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

This product contains microplastics. The synthetic polymer microparticles supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council. Avoid release to the environment. Collect spillage. Do not dispose of rinsing water into the environment. Dispose waste in accordance with the local rules.

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.com.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY		
	component A	**component B**
Colour:	opalescent	straw-coloured
Consistency:	liquid	liquid
Density:	1.035-1.100 g/cm³	1.11-1.18 g/cm³

Brookfield viscosity:	200-700 mPa·s (# 2 - 20 rpm)	700-1,060 mPa·s (# 2 - 20 rpm)

APPLICATION DATA (at +23°C - 50% R.H.)	
Mixing ratio by weight:	comp. A : comp. B : = 87 : 13
Colour of mix:	opalescent
Consistency of the mix:	fluid
Density of the mix:	1,060-1,090 kg/m^3
Viscosity of the mix:	1,100-1,600 mPa·s (# 2 - 20 rpm)
Pot-life:	30 mins
Application temperature (refers to ambient, material and substrate):	from +10°C to +30°C
Waiting time between coats:	min. 6 h - max. 24 h

FINAL PERFORMANCES (at +23°C - 50% R.H.)	
Abrasion resistance - Taber abrasion meter (CS 17 wheel, 1,000 cycles/1,000 g) (EN ISO 5470-1): – after 7 days:	50 mg
Buchholz hardness (DIN 53153) – after 7 days:	71
Dust dry :	20-35 mins
Set to light foot traffic:	12 hours
Final hardening time:	7 days

Essential characteristics for CE marking according to EN 1504-2 - Tab. ZA 1.e. (coating C, principles MC - IR)

Essential characteristics	Test method according to EN 1504-2	Requirements	Typical values
Permeability to water vapour:	EN ISO 7783-1 EN ISO 7783-2	Class I s_D < 5 m Class II 5 m ≤ s_D ≤ 50 m Class III s_D > 50 m	Class I (s_D = 0.24 m)
Capillary absorption and permeability to water:	EN 1062-3	w < 0.1 kg/m^2·h$^{0.5}$	w < 0.1 kg/m^2·h$^{0.5}$
Direct traction adherence test. Reference substrate: MC (0.40) as specified in EN 1766, curing time 7 days:	EN 1542	Average (N/mm^2) Crack-bridging or flexible systems with no traffic: ≥ 0.8 (0.5) [b] with traffic: ≥ 1.5 (1.0) [b] Rigid systems with no traffic: ≥ 1.0 (0.7) [b] with traffic: ≥ 2.0 (1.0) [b]	4 N/mm^2
Reaction to fire class:	EN 13501-1	from $A1_{FL}$ to F_{FL}	B_{FL}-s1

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

LEGAL NOTICE

The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in effect at the time of the MAPEI product installation. For the most up-to-date TDS and warranty information, please visit our website at www.mapei.com.

ANY ALTERATIONS TO THE WORDING OR REQUIREMENTS CONTAINED IN OR DERIVED FROM THIS TDS SHALL VOID ALL RELATED MAPEI WARRANTIES

TECHNICAL SPECIFICATIONS

Supply and installation of a water-based, two-component, transparent matt, low-yellowing polyurethane finish (such as **Mapefloor Finish 52 W** by MAPEI S.p.A.), suitable as a protective and dust-proofing treatment for concrete substrate or as a finish for cementitious and resin flooring systems. To achieve a slip resistant surface, the polyurethane finish can be mixed with 1-3% by weight of special micrometric fillers (such as **Mapefloor Filler** by MAPEI S.p.A.).

The product must have the following characteristics:

Mixing ratio by weight:	Comp. A : Comp. B = 87:13
Density of the mix:	1,060-1,090 kg/m^3
Abrasion resistance Taber abrasion meter (CS 17 wheel, 1,000 cycles/1,000 g) (EN ISO 5470-1) – after 7 days:	50 mg
Buchholz hardness (DIN 53153) – after 7 days:	71
Permeability to water vapour (EN ISO 7783-1; EN ISO 7783-2):	Class I (s_D = 0.24 m)
Capillary absorption and permeability to water (EN 1062-3):	w < 0.1 kg/m^2·h$^{0.5}$
Reaction to fire class (EN 13501-1):	B_{FL}-s1

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