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MAPEFLOOR FINISH 52 W

Two-component, low-yellowing polyurethane finishing compound in water dispersion, for dust and oil repellent treatments



WHERE TO USE

Mapefloor Finish 52 W is specially formulated to form a transparent, opaque, wear-resistant protective finishing coat on epoxy products, such as **Mapefloor I 300 SL** and **Mapefloor I 500 W**.

This product is particularly suitable as a primer for **Mapefloor Finish 58 W** on cementitious systems such as **Ultratop**, **Ultratop Living** and **Ultratop Loft** and as a dust and oil repellent treatment for concrete and natural-finish concrete floors, without leaving the surface with a “wet-look” finish.

Thanks to its penetration properties when applied on cementitious substrates, **Mapefloor Finish 52 W** may also be used for protecting concrete structures subject to light attack by chemical agents.

Some application examples

- Transparent finishing coat on resin floors, such as **Mapefloor System 53** and **Mapefloor System 33**.
- Primer for **Mapefloor Finish 58 W** on substrates with **Ultratop**, **Ultratop Living** or **Ultratop Loft**.
- Dust-repellent treatment for new and old industrial concrete floors subjected to light traffic.
- Transparent protective layer for concrete structures subject to light chemical attack.

TECHNICAL CHARACTERISTICS

Mapefloor Finish 52 W is a solvent-free, two-component, low-yellowing polyurethane finishing product in water dispersion, produced according to a formula developed in MAPEI's own R&D laboratories.

Once dry, **Mapefloor Finish 52 W** does not significantly modify the colour of the surface treated. This characteristic is particularly advantageous when the original appearance of the surface to be treated needs to remain unchanged.

Mapefloor Finish 52 W is applied using a roller or the airless spray system, at a thickness of 60 to 100 microns.

When applied on absorbent cementitious substrates, **Mapefloor Finish 52 W** is used to even out the absorbency of the surface before applying the final treatment of **Mapefloor Finish 58 W**.

RECOMMENDATIONS

- Do not apply **Mapefloor Finish 52 W** on dusty, crumbling or irregular substrates.
- Do not apply **Mapefloor Finish 52 W** on surfaces which are wet or which have oil or grease stains.
- When applied on dark coloured non-cementitious substrates white light streak may appear. Carry out preliminary tests beforehand.

APPLICATION PROCEDURE

Preparation of the substrate

Resin coatings:

Mapefloor Finish 52 W may be applied on both new and old resin coatings.

If the product is applied on new resin coatings, the said coating must be perfectly hard, dry and must have been laid no more than 24 hours before. If the recommended maximum time of 24 hours is longer, the surface must be sanded down using a single-headed sander with fine (80-100 grade) sandpaper or abrasive mesh, in order to guarantee that the product bonds well.

If **Mapefloor Finish 52 W** is applied on old resin surfaces, they must be perfectly clean and free of oil, greasy substances and any other product which could affect bonding. Also in this case, the entire surface must be sanded down to guarantee that the product bonds well to the substrate.

Ultratop, Ultratop Living, Ultratop Loft and concrete surfaces:

Surfaces in **Ultratop, Ultratop Living** or **Ultratop Loft** which are to be treated with **Mapefloor Finish 52 W** must be perfectly hard. According to the temperature and thickness of the surface, wait at least 48 hours before applying **Mapefloor Finish 52 W**. Sand the surface and immediately remove the dust. Wash the floor and leave it to dry before carrying out the impregnation treatment.

Concrete surfaces must be solid and perfectly clean. Remove any traces of dust, grease and form-release compound before applying the finishing treatment.

Preparation of the product

Mapefloor Finish 52 W is a polyurethane-based finishing product made up of two pre-dosed components. To prepare the product, pour component B into the container with component A and mix well with a low-speed drill with a blending attachment until a homogenous mix is obtained.

On absorbent surfaces, such as concrete, **Ultratop, Ultratop Living** or **Ultratop Loft**, the product must be diluted with 1:1 by weight of clean water.

Application of the product

Apply **Mapefloor Finish 52 W** uniformly using a smooth-haired roller or the airless spray system on resin coatings.

When used as a primer on the surface of **Ultratop, Ultratop Living** and **Ultratop Loft**, spread the product over the surface with a wax mop.

Non-slip finish

If a non-slip finish is required add **Mapefloor Filler** while mixing slowly and continuously at a ratio of 3-5% in weight. We recommend applying the product immediately after mixing to avoid the **Mapefloor Filler** settling.

CLEANING

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

CONSUMPTION

50-150 g/m² per coat, according to the characteristics of the substrate.

PACKAGING

component A: 4.7 kg in plastic drums;
component B: 0.7 kg in plastic bottles.

STORAGE

Mapefloor Finish 52 W can be stored for up to 12 months in its original packaging in a dry place, and at a temperature between +12°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor Finish 52 W component A is not considered hazardous according to the current regulations regarding the classification of mixtures.

Mapefloor Finish 52 W component B is dangerous if inhaled and may irritate the respiratory tract. Repeated contact with the skin may cause allergic reactions in those subjects sensitive to isocyanates. During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

Use a suitable device for protecting the respiratory tract.

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.

TECHNICAL DATA (typical values)			
PRODUCT IDENTITY			
	component A	component B	
Colour:	opalescent	straw-coloured	
Consistency:	liquid	liquid	
Density (g/cm ³):	1.060 ± 0.015	1.145 ± 0.04	
Brookfield viscosity (mPa·s):	800 ± 200 (rotor 2 - 20 rpm)	900 ± 150 (rotor 2 - 20 rpm)	
APPLICATION DATA (at +23°C - 50% R.H.)			
Mixing ratio:	comp. A : comp. B : = 87 : 13		
Colour of mix:	opalescent		
Consistency of the mix:	fluid		
Dry substances content (3 h - 105°C) (%):	42 ± 1		
Density of the mix (kg/m ³):	1,070 ± 20		
Viscosity of the mix (mPa·s):	1,650 ± 100 (rotor 2 - 20 rpm)		
Pot life:	30 mins		
Surface temperature:	from +12°C to +30°C		
FINAL PERFORMANCES			
Abrasion resistance Taber abrasion meter (CS 17 disk, 1000 cycles/1000 g) (mg) - after 24 h: - after 7 days: - after 7 days + 7 days at +50°C:	50 50 30		
Bucholz hardness - after 24 h: - after 48 h: - after 7 days: - after 7 days + 7 days at +50°C:	58 68 71 75		
Dust dry at +23°C and 50% R.H.:	20-35 mins		
Set to light foot traffic at +23°C and 50% R.H.:	12 hours		
Final hardening time:	7 days		
Mapefloor Finish 52 W - Performance characteristics for CE certification according to EN 1504-2 - Tab. ZA 1.e. (coating C, principles MC - IR)			
Performance characteristics	Test method according to EN 1504-2	Requirements	Performance of product

Permeability to water vapour:	EN ISO 7783-2	Class I $s_D < 5$ m Class II $5 \text{ m} \leq s_D \leq 50$ m Class III $s_D > 50$ m	Class I (average $s_D = 0.24$ m)
Capillary absorption and permeability to water:	EN 1062-3	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$	average $w = 0.015 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Direct traction adherence test. Reference substrate: MC (0.40) as specified in EN 1766, curing time 7 days:	EN 1542	Average (N/mm ²) Cracking or flexible systems with no traffic: ≥ 0.8 (0.5) with traffic: ≥ 1.5 (1.0) Rigid systems with no traffic: ≥ 1.0 (0.7) with traffic: ≥ 2.0 (1.0)	4 N/mm ²
Reaction to fire after application:	EN 13501-1	Euroclasses	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

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