

MAPEFLOOR FINISH 58 W

Two-component, aliphatic, transparent, or coloured,
matt polyurethane finish in water dispersion



WHERE TO USE

Mapefloor Finish 58 W is a two-component, aliphatic polyurethane coating product in water dispersion with a matt, transparent or coloured finish.

Mapefloor Finish 58 W is an ideal finishing product for **Mapefloor System** and **Ultratop System** toppings. It improves their resistance to wear and to scratches while limiting dirt pick-up and making routine cleaning and maintenance operations simpler.

Mapefloor Finish 58 W is also suitable for protecting the surface of concrete.

Some application examples

- Matt, transparent or coloured finish on resin floors such as **Mapefloor System 33**, **Mapefloor System 53** and **Mapefloor Comfort Systems**.
- Matt transparent or coloured finish on self-levelling floors made using **Ultratop**, **Ultratop Living** or **Ultratop Loft**.
- Protection for concrete surfaces.

TECHNICAL CHARACTERISTICS

Mapefloor Finish 58 W is a two-component, aliphatic, transparent or coloured polyurethane coating product with a matt finish according to a formula developed in the MAPEI R&D laboratories.

When hardened, **Mapefloor Finish 58 W** improves the mechanical characteristics and in particular provides higher resistance to abrasion and to scratches.

Mapefloor Finish 58 W is resistant to ultra-violet rays and does not yellow. The transparent version, however, does not act as a filter for UV and doesn't protect the substrates from this type of light.

As the product is dispersed in water, it is odourless which makes it suitable for use in closed environments and makes the work of floor layers easier during application.

Mapefloor Finish 58 W has the following performance characteristics:

- high resistance to abrasion and to scratches;
- odourless;
- even, matt finish;
- resistant to ultra-violet rays, none yellowing;
- easy to apply;
- water dispersion;
- a non-slip finish may be obtained by adding **Mapefloor Filler**.

When applied on concrete substrates **Mapefloor Finish 58 W** complies with the principles defined in EN 1504-9 (*"Products and systems for the protection and repair of concrete structures: definitions, requirements, quality control and conformity assessment. General principles for the use and application of systems"*), and the requirements of EN 1504-2 (*"Protection systems for concrete surfaces"*) for class: products for protecting surfaces - coating (C) – moisture control (MC) + increasing resistivity by limiting moisture content (IR).

COLOURS AVAILABLE

The coloured version of **Mapefloor Finish 58 W** is available in several RAL colours:
Please contact MAPEI H. Q. to know the colours available.
Using colours in complete contrast with the colour of the substrate is not recommended.

RECOMMENDATIONS

- Do not apply more than 100 g/m² of the product per coat. Larger quantities could cause defects in the coating.
- Only apply **Mapefloor Finish 58 W** on **Ultratop/Ultratop Living/Ultratop Loft** if they have been coated with **Ultratop Base Coat** beforehand.
- Do not apply **Mapefloor Finish 58 W** on dusty, crumbling or weak substrates.
- Do not apply **Mapefloor Finish 58 W** on wet surfaces or on surfaces with oil or grease stains.
- Only apply **Mapefloor Finish 58 W** if the temperature of the substrate is at least 3°C higher than the dew-point temperature.
- 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.
- If more than one coat of finish is applied, do not exceed the maximum recommended overlay time between each coat to guarantee optimum adherence of the coating. If this time is exceeded, the surface of the previous layer must be abraded mechanically before applying the next one.
- Do not apply **Mapefloor Finish 58 W** on damp substrates or on substrates with capillary rising damp (contact our Technical Services Department).
- Do not dilute **Mapefloor Finish 58 W** with organic solvents.
- We recommend using **Mapefloor Finish 58 W** from the same production batch to guarantee an even colour.
- The coating 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 chemicals.
- Remove aggressive chemicals as soon as possible after they come into contact with **Mapefloor Finish 58 W**.
- Use suitable specific cleaning equipment and detergent to clean the product, depending on the type of dirt or stain to be removed.

APPLICATION PROCEDURE

Substrate preparation

Mapefloor Finish 58 W may be applied on both new and old coatings.

If the product is applied on new resin coatings, they must be hard, dry and have been applied for no more than 24 hours previously.

If more than 24 hours have passed, resin coatings must be abraded with a single-head sander with 200-300 grade sandpaper or a fine-grained abrasive pad to guarantee adhesion of the product.

If **Mapefloor Finish 58 W** is applied on old resin coatings, on the other hand, they must be perfectly clean and free of all traces of oil, grease and/or all other contaminants. Always abrade the entire surface to guarantee good adhesion between the product and the substrate.

Coloured versions of **Mapefloor Finish 58 W** offer better cover for scratch marks caused by sanding.

Before applying **Mapefloor Finish 58 W** on **Ultratop**, **Ultratop Living** and **Ultratop**, apply a coat of **Ultratop Base Coat**.

Concrete surfaces, on the other hand, must be treated beforehand with a coat of **Mapecoat I 600 W** diluted 1:1 in weight with water.

Preparation of the product

Mapefloor Finish 58 W is a polyurethane finish made from two, pre-dosed components.

To prepare the product, mix component A with component B with a low speed electric mixer until they are completely blended.

We recommend preparing only the quantity that may be applied within the maximum workability time.

If a non-slip surface finish is required to **Mapefloor Finish 58 W**, add 3-5% by weight of **Mapefloor Filler** while mixing.

Application of the product

Apply 1-2 coats of **Mapefloor Finish 58 W** with a short-piled roller (such as mohair) or by airless spray on the surface of resin substrates or **Ultratop/Ultratop Living/Ultratop Loft** after treating the surface with **Ultratop Base Coat**. When applying with a roller, go in opposite directions with each successive coat.

It is recommended to apply at least 2 coats of **Mapefloor Finish 58 W** when using the coloured version.

If the re-coat time between each coat exceeds the recommended time in the table, lightly sand the surface of the first coat before applying the next one.

Re-coat times are shorter at high temperatures and longer at low temperatures.

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

CLEANING

Clean tools used to prepare and apply **Mapefloor Finish 58 W** immediately after use with plenty of running water. Once hardened, the product may only be removed mechanically.



CONSUMPTION

0.1-0.2 kg/m² per coat, depending on the roughness of the substrate.

PACKAGING

Mapefloor Finish 58 W transparent:

- component A: 5 kg;
- component B: 0,5 kg.

Mapefloor Finish 58 W coloured:

- component A: 5,5 kg;
- component B: 0,5 kg.

STORAGE

Store the product in a covered, dry place at a temperature of between +12°C and +30°C. The product may be stored for 12 months in such conditions.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapefloor Finish 58 W component A is not considered hazardous according to current norms and guidelines regarding the classification of mixtures.

Mapefloor Finish 58 W component B irritates the respiratory system and may cause sensitisation to those sensitive to isocyanates if it comes in contact with the skin. It is also hazardous if inhaled.

When applying the product it is recommend to wear protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin wash immediately with plenty of water and seek medical advice. Wear suitable protection for the respiratory system.

Mapefloor Finish 58 W component B is also hazardous for aquatic life; do not dispose of the product in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.

PRODUCT ONLY FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)				
PRODUCT IDENTITY				
	TRANSPARENT		COLOURED	
	comp. A	comp. B	comp. A	comp. B
Colour:	transparent	transparent	various RAL colours	transparent
Consistency:	liquid	liquid	liquid	liquid
Density (g/cm ³):	1.06	1.12	1.09*	1.12
Ford cup (seconds):	30 (No. 4)	50 (No. 3)	32 (No. 4)	50 (No. 3)
APPLICATION DATA (at +23°C - 50% R.H.)				
Mixing ratio in weight:	A : B = 10 : 1		A : B = 11 : 1	
Colour of mix:	transparent		various RAL colours	
Consistency of mix:	fluid		fluid	
Density of mix (kg/m ³):	1,065		1,095*	

No. 4 Ford cup (seconds):	60	60	
Workability time at +23°C:	60-90 mins.	60-90 mins.	
Temperature of application surface:	+10°C to +30°C	+10°C to +30°C	
Re-coat time at +23°C:	min. 4 h - max. 72 h	min. 4 h - max. 72 h	
Dust dry:	approx. 35 mins.	approx. 35 mins.	
		* depending on colour applied	
FINAL PERFORMANCE			
Abrasion resistance after 7 days (Taber abrasion meter, CS17 disk, 1000 g, 1,000 revs) (EN ISO 5470-1) (mg):	50	50	
Gloss (Gloss 60°C) (ISO 2813):	10	10	
Set to foot traffic at +23°C and 50% R.H.:	12 h	12 h	
Complete hardening time at +23°C and 50% R.H.:	7 days	7 days	
QUV colour variation (ASTM G 154):	–	more than 1,500 hours with no variation	
MAIN CHARACTERISTICS FOR CE CERTIFICATION ACCORDING TO EN 1504-2 – TAB. ZA. 1e (coating C, MC-IR)			
Main characteristics	Test method according to UNI EN 1504-2	Requirements	Performance of product
Permeability to water vapour:	EN ISO 7783-2	Class I $s_D < 5$ m (permeable to water vapour) Class II $5 \text{ m} \leq s_D \leq 50$ m Class III $s_D > 50$ m (impermeable to water vapour)	Class I
Capillary absorption and permeability to water:	EN 1062-3	$w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$	$0.047 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
Direct traction adherence test. Reference substrate: MC (0.40) as specified by EN 1766, curing time: – 28 days for one-component systems containing concrete and PCC systems: – 7 days for reactive resin systems:	EN 1542	Average (N/mm ²) Cracking or flexible systems with no traffic: ≥ 0.8 (0.5) ^{b)} with traffic: ≥ 1.5 (1.0) ^{b)} Sistemi rigidi^{c)} with no traffic: ≥ 1.0 (0.7) ^{b)} with traffic: ≥ 2.0 (1.0) ^{b)}	> 3.5 Mpa (rigid system with traffic)
Reaction to fire:	EN 13501-1	from A _{1FL} 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

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