

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.

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** or **Ultratop Living**, but only if coated beforehand with **Mapefloor Finish 52 W**.

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 adheres well to smooth, non-porous resin substrates.

Flooring treated with **Mapefloor Finish 58 W** is also resistant to aggressive chemicals, such as medium concentrated acids and base substances, as well as to mineral oils.

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 rays and after no protection to 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;
- resistant to aggressive chemicals and mineral oils;
- easy to apply;
- water dispersion;
- a non-slip finish may be obtained by adding **Mapefloor Filler**.

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.

N.B.: *Mapefloor Finish 58W is resistant to UV rays. The transparent version, however, does not act as a filter for UV rays and offers no protection to substrates from this type of light.*

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** or **Ultratop Living** if they have been coated with **Mapefloor Finish 52 W** 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.
- The temperature of the substrate must be at least 3°C higher than the dew-point temperature.

APPLICATION PROCEDURE

Substrate preparation

Resin coatings:

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

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 an electric mixer at low speed 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 or 2 coats of **Mapefloor Finish 58 W** with a short-piled roller (such as mohair) or by airless spray on resin substrates, **Ultratop** or **Ultratop Living** after applying a coat of **Mapefloor Finish 52 W**. When applying with a roller, go in opposite directions with each successive coat.

At least 2 coats of **Mapefloor Finish 58 W** should be applied when using the coloured version.

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

Waiting times are longer at higher temperatures and shorter at lower temperatures.

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

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

	TRASPARENT		COLOURED	
	comp. A	comp. B	comp. A	comp. B
Colour:	trasparent	trasparent	RAL colours	trasparent
Appearance:	liquid	liquid	liquid	liquid
Density (g/cm³):	1.06	1.12	1.09*	1.12
Ford cup (seconds):	30 (nr. 4)	50 (nr. 3)	32 (nr. 49)	50 (nr. 3)

APPLICATION DATA (at +23°C - 50% R.H.)

Mixing ratio:	A : B = 10 : 1	A : B = 11 : 1
Colour of mix:	trasparent	RAL colours
Consistency of mix:	fluid	fluid
Dry substances content:	ca. 39%	42-45%*
Density of mix (kg/m³):	1.065	1.095*
No. 4 Ford cup (seconds):	60	60
Pot life at +23°C:	60-90 min.	60-90 min.
Surface temperature:	from +10°C to +30°C	from +10°C to +30°C
Delay between the coats at +23°C:	min. 4 h - max. 72 h	min. 4 h - max. 72 h
Dust dry:	35 min.	35 min.
		* depending on the colour

FINAL PERFORMANCE

Abrasion resistance after 7 days: (Taber abrasion-meter CS 17 disk, 1000 g) (mg):	30	30
Gloss factor (Gloss 60°C):	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 gg	7 gg
Change in colour (QUV test):		more than 1,500 hours with no variation

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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 according to the grade of finish required for the coating.

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 B is irritant for the respiratory apparatus and may cause sensitization when in contact with the skin.

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

We recommend using gloves and protective goggles and to take the usual precautions for handling chemical products. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

We also recommend working in well ventilated areas. If there is insufficient ventilation, wear suitable devices to protect the respiratory tract.

Then, **Mapefloor Finish 58 W** component B is hazardous for aquatic life. Do not dispose of these products in the environment. 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 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