



# Mapefloor Finish 53 W/L

**Two-component, aliphatic, transparent, gloss polyurethane finish in water dispersion with no NMP for protecting resin flooring systems**



## WHERE TO USE

Thanks to its excellent characteristics and easy application procedure, **Mapefloor Finish 53 W/L** is recommended as a finishing product to improve the wear resistance and appearance of streaks on floors produced using the **Mapefloor System**.

## Some application examples

- Transparent finish on resin floors such as **Mapefloor System 33** and **Mapefloor System 53**.

## TECHNICAL CHARACTERISTICS

**Mapefloor Finish 53 W/L** is a two-component, aliphatic, transparent, gloss polyurethane finish with no NMP, very low emission of volatile organic compounds (VOC) and high resistance to wear and abrasion, according to a formula developed in the MAPEI R&D laboratories.

For limited periods, **Mapefloor Finish 53 W/L** is also highly resistant to medium concentration acid and basic solutions, as well as to mineral oils.

Apply **Mapefloor Finish 53 W/L** with a roller or by airless spray in coats from 60 to 100 microns thick. When hardened, the product improves the mechanical characteristics of the treated surface, and in particular guarantees less water absorption, high resistance to abrasion and scratches.

**Mapefloor Finish 53 W/L** has the following characteristics:

- excellent resistance to abrasion and scuff mark;
- available in a transparent gloss version.

## RECOMMENDATIONS

- Do not apply more than 100 g/m<sup>2</sup> of the product per coat. Larger quantities could cause defects in the coating.
- Do not apply **Mapefloor Finish 53 W/L** on dusty, crumbling or weak substrates.
- Do not apply **Mapefloor Finish 53 W/L** on wet surfaces or on surfaces contaminated with oil or grease.
- 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 last layer must be abraded mechanically before applying the next one.

## APPLICATION PROCEDURE

### Preparation of the substrate

Resin coatings:

**Mapefloor Finish 53 W/L** 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 no more than 24 hours previously.

If more than 24 hours have gone by, resin coatings must be abraded with a single-head grinder with

TECHNICAL DATA (typical values)				
<b>PRODUCT IDENTITY</b>				
	<b>component A</b>	<b>component B</b>		
Colour:	transparent	transparent		
Appearance:	liquid	liquid		
Density (g/cm <sup>3</sup> ):	1.03	1.12		
Brookfield viscosity (mPa·s):	90 (# 1 - 20 rpm)	390 (# 1 - 10 rpm)		
Dry solids content (%):	27	70		
<b>APPLICATION DATA (at +23°C - 50% R.H.)</b>				
Maximum permissible dilution:	10% with clean water			
Mixing ratio:	comp. A : comp. B = 10 : 1			
Colour of mix:	transparent			
Consistency of mix:	fluid			
Dry solids content (%) (3 h - 105°C):	33			
Density of mix (kg/m <sup>3</sup> ):	1,040			
Viscosity of mix (mPa·s):	190 (# 1 - 20 rpm)			
Workability time:	15-20 mins. at +23°C			
Surface temperature:	from +12°C to +30°C			
Overlying:	from 3 to 5 h			
Grinding:	after 12 hours			
Touch dry:	40 mins.			
<b>FINAL PERFORMANCE</b>				
Abrasion resistance (Taber abrasimeter) (CS 17 disk - 1000 g - 1000 revs) (mg):	22			
Dust dry at +23°C and 50% R.H.:	40 mins.			
Set to foot traffic at +23°C and 50% R.H.:	6-7 h			
Complete hardening time:	12 h at +23°C			
Gloss factor:	80			
<b>MAPEFLOOR FINISH 53 W/L on Mapefloor System 33</b>				
Performance characteristic	Test method	Requirements according to UNI EN 13813 for synthetic resin-based screeds	Performance of product	Class
BCA wear resistance (µm):	EN 13892-4	≤ 100	10	AR0.5
Adhesion strength (N/mm <sup>2</sup> ):	EN 13892-8; 2004	≥ 1.5	3.43	B2.0
Impact strength (Nm):	EN ISO 6272	≥ 4	20	IR20
Reaction to fire:	EN 13501-1	from A <sub>1</sub> to F <sub>fl</sub>	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1
Emission of corrosive substances:		Type of resin		SR
<b>MAPEFLOOR FINISH 53 W/L on Mapefloor System 53</b>				
Performance characteristic	Test method	Requirements according to UNI EN 13813 for synthetic resin-based screeds	Performance of product	Class
BCA wear resistance (µm):	EN 13892-4	≤ 100	0	AR0.5
Adhesion strength (N/mm <sup>2</sup> ):	EN 13892-8; 2004	≥ 1.5	3.14	B2.0
Impact strength (Nm):	EN ISO 6272	≥ 4	20	IR20
Reaction to fire:	EN 13501-1	from A <sub>1</sub> to F <sub>fl</sub>	B <sub>fl</sub> -s1	B <sub>fl</sub> -s1
Emission of corrosive substances:		Type of resin		SR
Permeability to water vapour:	EN ISO 7783-1-2	Class I: S <sub>D</sub> < 5 m (permeable to water vapour); Class II: 5 m ≤ S <sub>D</sub> ≤ 50 m; Class III: S <sub>D</sub> > 50 m (impermeable to water vapour)	S <sub>D</sub> = 1.69 m	Class I

80-100 grade sandpaper or a fine-grained abrasive pad to guarantee the product adheres well.

If **Mapefloor Finish 53 W/L** 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 any other contaminant. Always abrade the entire surface to guarantee good adhesion between the product and the substrate.

#### **Preparation of the product**

**Mapefloor Finish 53 W/L** is a polyurethane finish made from two, pre-measured components.

To prepare the product, mix component A with component B at a ratio of 10:1 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 53 W/L**, add 5-10% by weight of **Mapefloor Filler** while mixing.

#### **Application of the product**

Apply **Mapefloor Finish 53 W/L** evenly using a short-haired roller, such as mohair, or by airless spray over resin coatings.

If a further coat is required, it may only be applied after abrading the first coat, by grinding.

#### **Cleaning**

Clean tools used to prepare and apply **Mapefloor Finish 53 W/L** immediately after use with plenty of running water. Once hardened, the product may only be removed mechanically.

#### **CONSUMPTION**

0.1-0.2 kg/m<sup>2</sup>, depending on the grade of finish required to the coating.

#### **PACKAGING**

Component A: 5.0 litres.  
Component B: 0.5 litres.

#### **STORAGE**

Store in a covered, dry place at a temperature of between +12°C and +25°C.

The product may be stored up to 12 months in such conditions.

#### **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Mapefloor Finish 53 W/L** part A is not considered hazardous according to current standards regarding the classification of mixtures.

**Mapefloor Finish 53 W/L** part B may irritate the respiratory apparatus and may cause sensitisation if it comes into contact with the skin. When applying the product, we recommend using protective clothing, gloves and safety goggles 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 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](http://www.mapei.com)**

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**

# Mapefloor Finish 53 W/L



MAPEFLOOR FINISH 53 W/L - Chemical resistance table

Chemical agent	Temperature	Contact time	Level of chemical resistance	
			1 = minimum	5 = maximum
Acetone	20°C	10 seconds		5
Vinegar	20°C	1 h		5
1% ammonia	20°C	1 h		5
10% ammonia	20°C	1 h		5
90% ethanol	20°C	1 h		4
10% ethanol	20°C	16 h		5
Coffee	40°C	16 h		3
Extra virgin olive oil	20°C	16 h		5
Distilled water	20°C	16 h		5
15% water and salt	20°C	16 h		5

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