

# MAPEFLOOR COMFORT SYSTEM AL

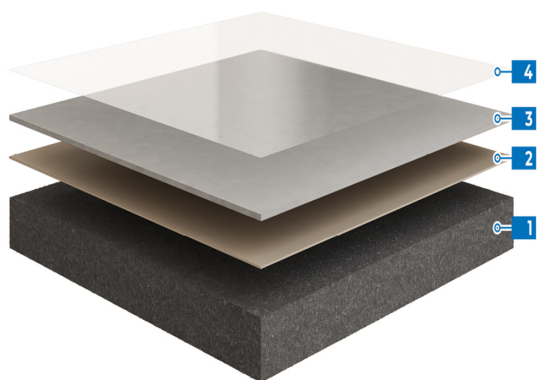
Self-levelling, elastic, UV-resistant, aliphatic polyurethane-based resin system, 2 mm thickness

## PRODUCTS USED

PRIMER SN - QUARTZ 0.5 - MAPEFLOOR PU 461 - MAPEFLOOR FINISH 59 W TRP

## DESCRIPTION

MAPEFLOOR COMFORT SYSTEM AL is a smooth and elastic resin system based on coloured self-levelling aliphatic polyurethane resin and transparent aliphatic polyurethane topcoat, characterized by a good aesthetic appearance, for flooring in internal environments.



- 1 Concrete
- 2 Primer SN
- 3 Mapefloor PU 461
- 4 Mapefloor Finish 59 W TRP

## WHERE TO USE

MAPEFLOOR COMFORT SYSTEM AL is used for concrete floors and cementitious substrates in general in various residential, public and tertiary sectors such as:

- hospitals, healthcare facilities;
- museums, libraries, showrooms;
- shops, commercial areas in general;
- schools, kindergartens;
- offices, meeting rooms, waiting rooms;

apartments, villas, etc.;

## PERFORMANCE AND ADVANTAGES

- very low emission of VOC;
- UV resistant;
- elastic;
- light reduction in trampling noise;
- very good resistance to pedestrian traffic;
- impermeable to water and liquid in general;
- dustproof;
- seamless surface, smooth and jointless;
- many colours available;
- very attractive finish;
- possibility of creating particular surface aesthetic effects thanks to the transparent finish;
- easy to clean and maintain.

## CHEMICAL RESISTANCE

At room temperature, **MAPEFLOOR COMFORT SYSTEM AL** is resistant to chemical products commonly used to clean and maintain floors in residential and tertiary environments.

**MAPEFLOOR COMFORT SYSTEM AL** is not suitable for constant exposure to high temperatures and thermal shock.

## COLOURS AVAILABLE

**MAPEFLOOR COMFORT SYSTEM AL** is available in different RAL colours. Please consult MAPEI Technical Service Department for the complete range of colours.

The application of the transparent topcoat **MAPEFLOOR FINISH 59 W TRP** gives the system a matt aspect. The transparency of the finishing product allows special aesthetic effects to be created in the self-levelling base layer (e.g. broadcast with coloured chips, mixtures of shades formed by using different colours, etc.).

## CONSUMPTION

The consumptions indicated below are for a cycle applied at a temperature of +15°C to +25°C on a smooth, compact concrete surface finished with a dry shake system and prepared by diamond grinding or by light shot blasting. Rougher surfaces and lower temperatures lead to higher consumptions and longer hardening times.

## MAPEFLOOR COMFORT SYSTEM AL - average thickness 2 mm

### *Base layer:*

<b>PRIMER SN:</b>	0.7 kg/m <sup>2</sup>
<b>QUARTZ 0.5:</b>	0.14 kg/m <sup>2</sup>
light broadcast with <b>QUARTZ 0.5:</b>	0.5 kg/m <sup>2</sup>

### *Self-levelling layer:*

<b>MAPEFLOOR PU 461:</b>	2.8 kg/m <sup>2</sup> (2 mm thickness)
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### *Finishing coat:*

<b>MAPEFLOOR FINISH 59 W TRP:</b>	0.1-0.2 kg/m <sup>2</sup> per coat
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For further information concerning the method of application of the above-mentioned products, please refer to the relevant technical data sheets.

## CLEANING AND MAINTENANCE

Regular cleaning and maintenance increase the life of the treated floor, improves its aesthetic properties and reduces its tendency to collect dirt. Floors created using **MAPEFLOOR COMFORT SYSTEM AL** are generally easy to clean with neutral detergents, or with alkali detergents diluted at a concentration of from 5 to 10% in water. **MAPEFLOOR MAINTENANCE KIT** is available for maintenance operations and includes **MAPELUX LUCIDA** wax, **MAPEFLOOR WAX REMOVER** and **MAPEFLOOR CLEANER ED** detergent for daily cleaning operations. Our Technical Services Department is available for any information required.

## TECHNICAL DATA

### TECHNICAL DATA (after 7 days at +23°C)

Appearance:	matt
Impact sound insulation (EN ISO 10140):	2 dB
*Adhesion strength (EN 13892-8):	≥ 2.5 N/mm <sup>2</sup> (concrete failure)
*Elongation at break (DIN 53504):	75%
*Tear strength (DIN 53515):	12 N/mm
*Tensile strength (DIN 53504):	4 N/mm <sup>2</sup>
*Shore A hardness (DIN 53505):	75
**Abrasion resistance (TABER test CS 17 wheel – 1,000 revs – 1,000 g) (EN ISO 5470-1):	25 mg

\* values for *Mapefloor PU 461*

\*\* value referred to the finishing film *Mapefloor Finish 59 W TRP*


## NOTES

Recommendations regarding safe handling of the products are contained in the Material Safety Data Sheet for each single product in the cycle. However, the use of protective gloves and goggles is recommended when mixing and applying the products.

**If the cycle is applied on different surfaces, in climatic conditions and/or for final uses not mentioned above, please contact the Technical Services Department at MAPEI S.p.A.**

**Mapei S.p.A.**

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