

MAPEFLOOR SYSTEM 31

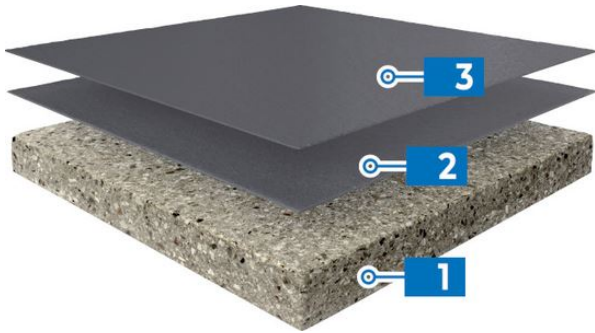
Multi-layer epoxy system for industrial floors, thickness 0.8-1.2 mm

PRODUCTS TO USE

PRIMER SN - MAPEFLOOR I 300 SL - QUARTZ 0.5 - QUARTZ 0.25

DESCRIPTION

MAPEFLOOR SYSTEM 31 is an epoxy system for industrial floors subject to medium to light chemical and mechanical stress.



- 1 Concrete
- 2 Primer SN
- 3 MAPEFLOOR I 300 SL

WHERE TO USE

MAPEFLOOR SYSTEM 31 is a slip-resistant resin system used for interior industrial floors and cementitious substrates in general, even in wet areas, in various sectors such as:

- chemical and pharmaceutical industries;
- mechanical industries, workshops;
- car parks;
- food industries in general;
- nuclear power plants;
- artisan workshops;
- technical premises;
- warehouses and storage areas;
- manufacturing industries in general;

- hangars, aeronautical or automotive industry;
- shopping centres, residential and tertiary buildings, infrastructures etc.

BENEFITS AND FEATURES

- slip-resistant surface;
- good chemical and mechanical resistances in general;
- high resistance to wear and abrasion caused by pedestrian and vehicular traffic;
- impermeable to water and liquids in general;
- surfaces are easy to clean and maintain;
- resistant to frequent washing;
- attractive aesthetic aspect;
- fast application and commissioning of the treated surfaces;
- available in various colours.

CHEMICAL RESISTANCE

MAPEFLOOR SYSTEM 31, at room temperature, is temporary resistant to:

- diluted inorganic acids; limited resistance to organic acids;
- fats, sugars;
- alkalis, basic solutions;
- detergents;
- mineral oils, lubricants, diesel fuel and gasoline;
- de-icing salts, salt solutions.

For more information and details regarding the chemical resistance of **MAPEFLOOR SYSTEM 31** component products, please consult the relevant tables.

MAPEFLOOR SYSTEM 31 is not suitable for continuous exposure to high temperatures and thermal shocks.

COLOURS

MAPEFLOOR SYSTEM 31 is available in various RAL colours. For the full range of colours available, please contact the Head Office.

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.

Consumption of materials is heavily influenced by the absorption, roughness and porosity of the substrate and the surrounding conditions on site during application.

The amount of quartz sand to be mixed into the products may vary depending on the roughness of the substrate, the thickness to be applied, the colour, the temperature and the environmental conditions.

1. Base layer - scratch coat of **PRIMER SN** mixed with 20% by weight of **QUARTZ 0.5** then broadcast in excess with **QUARTZ 0.5**:

PRIMER SN:	0.5-0.7 kg/m ²
QUARTZ 0.5:	0.10-0.14 kg/m ²
Broadcast with QUARTZ 0.5:	3.0 kg/m ²

2. Topcoat - scratch coat of MAPEFLOOR I 300 SL mixed with 5-6% by weight of QUARTZ 0.25:

MAPEFLOOR I 300 SL:	0.4-0.6 kg/m ²
QUARTZ 0.5:	0.02-0.04 kg/m ²

For further information on how to apply the above-mentioned materials, please refer to the relevant technical data sheets.

CLEANING AND MAINTENANCE

Regular cleaning and maintenance operations increase the treated flooring service life, improve its aesthetic properties and reduce its tendency to collect dirt. Floors created using **MAPEFLOOR SYSTEM 31** are generally easy to wash with neutral detergents, or with alkali detergents diluted at a concentration of 5 to 10% in water. **MAPEFLOOR MAINTENANCE KIT** is available for maintenance operations and includes **MAPELUX LUCIDA** metallic 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)

Bond strength (EN 13892-8)	> 1.5 N/mm ² - substrate failure
Abrasion resistance (TABER wheel CS 17 - 1,000 revs - 1,000 g) (EN ISO 5470-1):	55 mg
Compatibility on wet concrete (EN 13578):	≥ 2.5 MPa
Reaction to fire (EN 13501-1):	B _{FL} -s1
Service temperature (air temperature):	from -20°C to +50°C
Consistency:	glossy

NOTES

Information regarding safety equipment and handling of the products are contained in the Safety Data Sheets for each component of the cycle. However, we recommend that protective goggles and gloves are always used 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.

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