

MAPEFLOOR SYSTEM 33

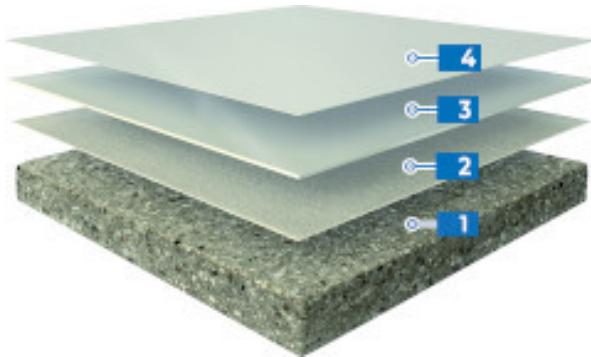
Self-levelling epoxy system for industrial floors, thickness 2-4 mm

PRODUCTS TO BE USED

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

DESCRIPTION

MAPEFLOOR SYSTEM 33 is a smooth self-levelling epoxy system for industrial floors subject to medium-heavy chemical and mechanical stress or where high hygienic standards are required.



1	Concrete
2	Primer SN
3	Mapefloor I 300 SL
4	Finish from the Mapefloor Finish range (optional)

WHERE TO USE

MAPEFLOOR SYSTEM 33 is a smooth resin system used for interior industrial floors and cementitious substrates in general, in dry areas, in various sectors such as:

- chemical and pharmaceutical industries;
- electronic and optical industries;
- mechanical industries, workshops;
- food industries in general;
- nuclear power plants;
- sterile rooms, hospitals;
- 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.

PERFORMANCE AND ADVANTAGES

- Surfaces are smooth and easy to clean and sanitize;
- excellent 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;
- easy to clean and maintain;
- resistant to frequent washing;
- attractive aesthetic aspect;
- fast application and commissioning of the treated surfaces;
- fulfills WHG requirements;
- Excellent resistance to continuous gamma radiation exposure (ASTM D4082);
- available in various colours.

CHEMICAL RESISTANCE

MAPEFLOOR SYSTEM 33, 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, saline solutions.

For more information and details regarding the chemical resistance of **MAPEFLOOR SYSTEM 33** component products, please consult the relevant tables.

MAPEFLOOR SYSTEM 33 is not suitable for continuous exposure to high temperatures and thermal shocks.

COLOURS

MAPEFLOOR SYSTEM 33 is available in various RAL colours. For the full range of colours available, please contact the Head Office.

CONSUMPTION

The consumption levels indicated below are for a cycle applied at a temperature of +15°C to +25°C on a smooth, compact concrete surface broadcast with mineral hardener and prepared with a diamond grinding wheel or by light shotblasting.

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

The quantity 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 lightly broadcast with QUARTZ 0.5:

PRIMER SN:

0.5-0.7 kg/m²

QUARTZ 0.5:

0.10-0.14 kg/m²

Broadcast with QUARTZ 0.5:

0.5 kg/m²

2. Self-levelling layer - 2 mm with MAPEFLOOR I 300 SL mixed 1:1 by weight with QUARTZ 0.25

MAPEFLOOR I 300 SL:
QUARTZ 0.25:

2.0 kg/m²
2.0 kg/m²

To improve the protection of the surface and/or change its gloss level, an optional finishing layer can be applied by roller or spray in at least two coats of product from the **MAPEFLOOR FINISH** range.

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 life of a coated floor, improves its aesthetic properties and reduces its tendency to collect dirt. Floors created using **MAPEFLOOR SYSTEM** 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. If **MAPEFLOOR SYSTEM 33** is applied for civil uses, we recommend waxing with **MAPELUX LUCIDA** or **MAPELUX OPACA**, specific metallic waxes.

TECHNICAL DATA

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

Adhesion (DIN ISO 4624)	>1.5 N/mm ² - substrate failure
Abrasion resistance (TABER wheel CS 17 - 1,000 revs - 1,000 g)	70 mg
Compressive strength (EN 196-1):	67 N/mm ²
Flexural strength (EN 196-1):	28 N/mm ²
BCA wear resistance (EN 13892-4):	10 µm
Impact resistance (EN ISO 6272):	20 N/m
Service temperature (air temperature):	-20°C / +60°C
Appearance:	glossy
Shore hardness (DIN 53505):	78 Shore D
Reaction to fire class (EN 13501-1):	B _{FL-s1}
Continuous exposure to gamma radiation (ASTM D4082)	excellent
Hardening time: - set to foot traffic - light traffic - complete hardening	approx. 24 h approx. 3 days approx. 7 days

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 from those mentioned above, or 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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