

MAPEFLOOR SYSTEM 32

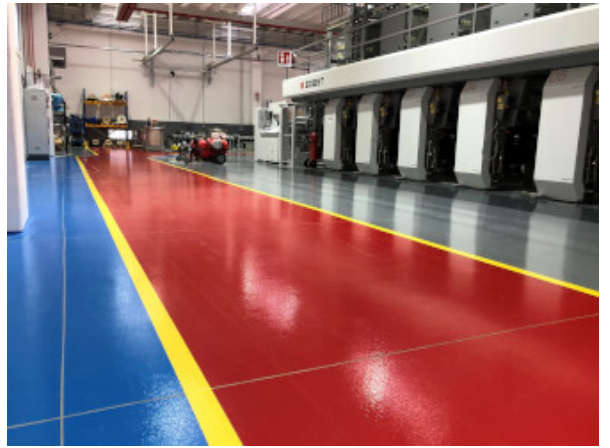
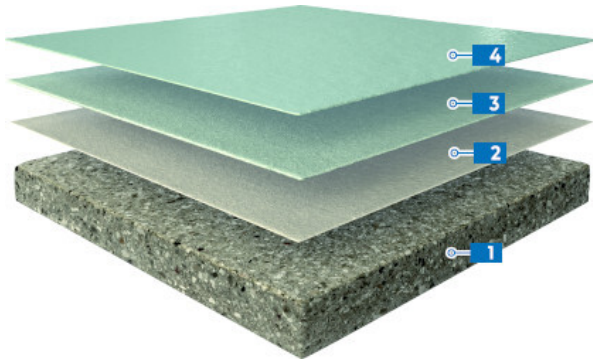
Multi-layer epoxy system for industrial floors, thickness 3.0-3.5 mm

PRODUCTS TO BE USED

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

DESCRIPTION

MAPEFLOOR SYSTEM 32 is an epoxy system for industrial floors subject to medium to heavy chemical and mechanical stress.



- 1 Concrete
- 2 PRIMER SN
- 3 MAPEFLOOR I 300 SL
- 4 MAPEFLOOR I 300 SL

WHERE TO USE

MAPEFLOOR SYSTEM 32 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;
- industrial kitchens;
- 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.

PERFORMANCE AND ADVANTAGES

- Slip-resistant surface;
- 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;
- 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 32, 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 32** component products, please consult the relevant tables.

MAPEFLOOR SYSTEM 32 is not suitable for continuous exposure to high temperatures and thermal shocks.

COLOURS

MAPEFLOOR SYSTEM 32 is available in various RAL colours. For the full range of colours available, please contact the Head Office.

CONSUMPTION

The consumption indicated below is 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 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. Intermediate layer - scratch coat of MAPEFLOOR I 300 SL mixed with 35-40% by weight of QUARTZ 0.5 then broadcast in excess with QUARTZ 0.5:

MAPEFLOOR I 300 SL:	0.9 kg/m ²
QUARTZ 0.5:	0.34 kg/m ²
Broadcast with QUARTZ 0.5:	3.0 kg/m ²

3. 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 0.25:	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 life of a coated floor, improves its aesthetic properties and reduces its tendency to collect dirt. Floors created using the **MAPEFLOOR SYSTEM 32** 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
Compressive strength (EN 196-1):	85 MPa
Flexural strength (EN 196-1):	45 MPa
Reaction to fire class (EN 13501-1):	B _{FL} -s1
Service temperature (air temperature):	from -20°C to +50°C
Appearance:	glossy
Hardening time:	
- set to foot traffic	approx. 24 h
- light traffic	approx. 3 days
- complete hardening time	approx. 7 days
Compatibility on wet concrete (EN 13578):	≥ 2.5 MPa


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.

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