MAPEFLOOR SYSTEM AS

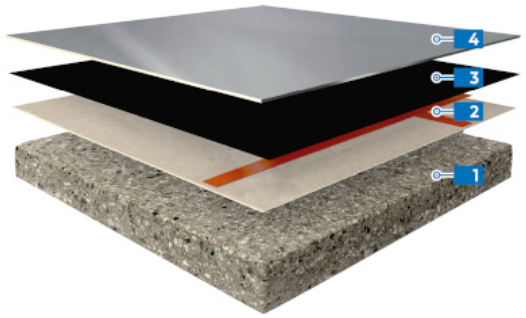
Self-levelling epoxy system for antistatic conductive industrial floors; thickness 1.5-2 mm

PRODUCTS USED

PRIMER SN - QUARTZ 0.5 - PRIMER W-AS N - COPPER BAND - MAPEFLOOR I 360 AS

DESCRIPTION

MAPEFLOOR SYSTEM AS is a self-levelling epoxy system for anti-static conductive industrial floors subject to medium-heavy chemical and mechanical stresses or where high hygiene standards are required for the flooring.



1 Concrete
2 **Primer SN** + **Copper Band**
3 **Primer W-AS N**
4 **Mapefloor I 360 AS**

WHERE TO USE

MAPEFLOOR SYSTEM AS is a smooth antistatic conductive resin system used for indoor concrete floors and cementitious substrates in general, in dry areas, in various sectors such as:

- electronic industry;
- pharmaceutical industry;
- laboratories;
- cleanrooms;
- nuclear power plants;
- hospitals and operating theatres;
- automotive industry;
- warehouses.

PERFORMANCE AND ADVANTAGES

- electrically conductive;
- smooth finish, easy to clean and sanitize;
- good chemical and mechanical resistance in general;
- good wear resistance to 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 surface;
- spark resistance according to UFGS-09 97 23 and UFGS-09 67 23.14, floor coating systems;
- fulfills ASTM D4082 requirements for nuclear power plants;
- fulfills ATEX 137 requirements;
- fulfills WHG requirements;
- available in several colours.

CHEMICAL RESISTANCE

MAPEFLOOR SYSTEM AS, 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, and petrol;
- de-icing salts, saline solutions.

ELECTRICAL CONDUCTIVITY

MAPEFLOOR SYSTEM AS, thanks to the special electro-conductive fillers contained in the products, prevents from static electricity discharging it to the nearest earthing point without sparking, in compliance with current standards and norms regarding health and safety and the protection of equipment and people in the electronics and chemical industries, hospitals, processing and store areas of flammable materials, etc.

COLOURS

MAPEFLOOR SYSTEM AS is available in several RAL colours. Please consult MAPEI Technical Service Department for the complete range of colours.

CONSUMPTION

The consumption figures below are evaluated considering the resin system is applied at a temperature between +15°C and +25°C on a smooth and compact surface of concrete finished with mineral hardener, prepared by diamond grinding or light shot blasting.
The consumption of the materials is strongly influenced by the absorbency, roughness and porosity of the substrate and by the environmental conditions of the jobsite during the installation.

1. Base layer

PRIMER SN: 0.7 kg/m²
QUARTZ 0.5: 0.14 kg/m²

2. Second layer of primer

PRIMER SN: 0.2 kg/m²

3. Earth connection

COPPER BAND: as required

4. Intermediate conductive layer

PRIMER W-AS N: 0.08-0.10 kg/m²

5. Antistatic conductive self-levelling layer - 1.5 mm

MAPEFLOOR I 360 AS: 2.4 kg/m²

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 made using **MAPEFLOOR SYSTEM AS** are generally easy to wash with neutral or alkaline detergents diluted 5-10% in water. Special detergents and cleaning tools are readily available for cleaning resin floors.
Our Technical Services Department is available to provide any information required.

TECHINCAL DATA

TECHNICAL DATA (after 7 days at +23°C)	
Direct traction adherence test (EN 1542)	≥ 3.5 N/mm²
Abrasion resistance (TABER CS17 disc - 1,000 g - 1,000 revs - EN ISO 5470-1)	67 mg
Abrasion resistance (TABER CS10 disc - 1,000 g - 1,000 revs - EN ISO 5470-1)	33 mg
Shore D hardness after 3 days at +23°C (DIN 53505)	81 N/mm²
Compressive strength after 28 days at +23°C (EN 196-1)	56 N/mm²
Flexural strength after 28 days at +23°C (EN 196-1)	52 N/mm²
Resistance at earthing point R_E (EN 1081)	$10^4 < R_E < 10^6$ Ohm
Reaction to fire class (EN 13501-1)	B_{FL}-s1

NOTES

Recommendations regarding safe handling of the products are contained in the 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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