

## Product

# DUROGLASS P5/2 CONDUTTIVO

code 4508 M040  
9108 0000

## Features

### SELF-LEVELLING COVERING FOR CONCRETE FLOORS BASED ON EPOXY RESIN, ALIPHATIC HARDENERS AND CONDUCTING ADDITIVES

- Semi-polished or polished smooth surface, easy to clean and decontaminate.
- Fast hardening.
- Excellent mechanical properties and resistance to wear and tear.
- Good colour stability.
- Reasonable chemical resistance to acid and alkaline solutions, fuels and mineral and vegetable oils.
- Suitable for food and pharmaceutical use.
- Applicable to the support from +18°C and relative humidity of < 60% (RH).
- Operating temperature from -25°C to +60°C.
- Complies with the DIN 51953 and CEI 64-4 standards.

## Types

- INDURITORE DUROGLASS P5/2 **LUCIDO (cod. 9108 0000) brilliant**
- INDURITORE DUROGLASS P5/2 **SATINATO (cod.9103 0000) satin-effect**

## Application field

Smooth or anti-slip conducting protective layers for concrete, clay and tiles floors and similar, for:

- floor surfaces for the movement of vehicles powered by overhead wires,
- flooring in explosion-proof areas,
- flooring for the electronic industries,
- flooring for sterile chambers,
- flooring in areas where it is impossible to electrically isolate the support, such as operating theatres, hospital areas using electronic equipment, and similar.

## Application

Two component product to be mixed when ready to use by means of a low rev helical mechanical agitator. Applicable by spatula, with rapid spreading movements, followed with precision application by roller to break up the bubbles.

The product can be used in a number of processes:

- 500 micron smooth film covering with 0.8 Kg/m<sup>2</sup> of product applied by spatula.
- 2 mm self-levelling smooth covering with 2.5 Kg/m<sup>2</sup> of product mixed with 1.5 Kg of M1 quartz.
- 3 mm self-levelling smooth covering with 3 Kg/m<sup>2</sup> of product mixed with 3 Kg of M1 quartz.

### PREPARING THE SUPPORT

The surfaces to be treated should be clean, dry, free of water counter-flow and mechanically resistant, with surface tear resistance of no less than 1.5 MPa.

If necessary, suitable surface treatment should be carried out. The surface will in any case have to be roughened by shot blasting.

Smooth, even surfaces: apply DUROGLASS AS, a two component product to be mixed when ready to use, diluted with 5-10% water, and applied by brush or roller in quantities of 200-250 g/m<sup>2</sup>. The minimum interval prior to the application of the self-levelling product is 16 hours.

Surfaces which have to be smoothed: apply DUROGLASS AS, a three component product to be mixed when ready to use in pre-dosed proportions and applied with a trowel directly or diluted with 2-3% of water in quantities of 1-1.5 kg/m<sup>2</sup> maximum per layer.

The minimum interval between applications is 16 ore hours, and the minimum interval prior to the application of the self-levelling product is 48 hours after the final smoothing layer.

Surfaces requiring a conducting grid: prepare the surface by smoothing with DUROGLASS AS as described above. The conducting grid should have a mesh of 50x50 cm, to be created by applying strips of 3M self-adhesive copper, and should be connected to earth. The strips should be applied to the smooth surface when this is completely dry (minimum of 48 hours) and pressed onto the surface with semi-hard rubber rollers or spatulas, to ensure that it adheres firmly throughout. For safety purposes, after laying the grid smooth the line of strips with DUROGLASS AS and leave to harden for 24 hours before laying the self-levelling product.

Non-conducting bases: the system may also be applied to non-conducting bases such as tiles, marble and adhesive resinous coverings. In such cases, it is essential to prepare the surface by shot blasting, smoothing and the application of a conducting grid.

**NOTE:** DUROGLASS P 5/2 CONDUTTIVO should not be applied at temperatures lower than +18°C and relative humidity of > 60%, as this could lead to the formation of stains due to contact with water or aqueous liquids. Use DILUENTE 21 thinner to wash the tools.

**Technical data**

<b>Color</b>	See color chart
<b>Specific weight</b>	1.45 ±0.03 Kg/l
<b>Mixing ratio</b>	100 parts by weight of base 22 parts by weight of hardener
<b>Viscosity at 20°C</b>	2,200 ± 800 mPa.s
<b>Pot life at 22°C</b>	50 minutes
<b>Hardenint at 22°C, 50% RH</b>	- dry to the touch 10 hours - can be walked on with caution 4 days - completely hardened 10 days

**Characteristics after 30 days at 22°C, 50% RH, 1:1 mixture with M1 quartz**

<b>ASTM D 4541 adhesion to concrete</b>	> 3.5 MPa
<b>Shore D ASTM D 2240</b>	> 82

<b>hardness</b>	
<b>UNI 8298 p.9<sup>a</sup> resistance to abrasion</b>	CS17 grinder, 1000 g, 1000 rpm < 110 mg
<b>UNI 8298 p.10<sup>a</sup> electrical surface resistance and resistance through the coating</b>	> 10 <sup>4</sup> Ω < 10 <sup>6</sup> Ω
<b>Storage</b>	If kept in the original sealed packs in a dry, protected place at temperatures of +5°C to +35°C, the product will keep for 12 months.

All data and prescription reported on the present data sheet are based on the best lab and practical experience and should anyhow be considered as indicative. Considering all different uses and the occurring of situations and conditions independent from MPM ( substrate, climate conditions, technical management etc. Those who intend to use the product should verify whether it is suitable for the specific conditions in which it will be applied before starting. MPM's responsibility covers the quality and productions standards referring to the above listed data only. Data should also be verified for latest available version of data sheets which could be surpassed by a new version. Data may change any time without notice from MPM.