

DUROGLASS P5/5

2 COMPONENT EPOXY SELF-LEVELING COMPOUND



CHARACTERISTICS

Surface **easy to clean** and **decontaminate**.

Fast curing speed.

Excellent **mechanical** properties and resistance to **wear**.

Good colour stability (excluding white).

Good chemical resistance to **acid** and **alkaline** solutions, fuels, mineral and vegetable oils.

Suitable for use in **food environments**.

Contributes to obtaining credits for **LEED** certification.

Meets the requirements of the **13813** standard for synthetic resin-based screeds.

APPLICATION TEMPERATURE

Applicable **from +10°C** of the substrate and relative humidity of the air < 60% (from +10°C of the substrate use a suitable hardener).

OPERATING TEMPERATURE

Operating temperature from **-25°C to +60°C**.

APPLICATION FIELDS

Smooth or non-slip protective layers on internal concrete floors for:

- Food industry.
- Precision mechanical industries.
- Textile and paper industries.
- Electrical and electronic industries.
- Chemical and pharmaceutical industries.

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SUBSTRATE PREPARATION

- The surfaces to be treated must be **sound, compact, free from dust and pollution** from foreign substances (dirt, oil, grease, release agents, etc.).
- The **cement substrate**, after adequate mechanical preparation, must have a surface resistance to tearing greater than 1.5 MPA, measured using suitable instruments.
- In the case of **ceramic substrates** or **old resinous coatings**, after adequate mechanical preparation, their correct adhesion to the substrate and the absence of traces of pollutants must be checked.
- Damaged **joints, holes** and other **irregularities** must be adequately levelled and repaired with **STARCEMENT 385** type epoxy grout, or **DUROGLASS P1/2** type epoxy mortar suitably loaded with quartz or **ADDENSANTE NT2**.

On green concrete substrates: first use **DUROGLASS FU BIANCO TIX** or **DUROGLASS FU RAPID**, referring to the respective technical data sheets for application methods.

On dry concrete substrate: first use epoxy primer such as **DUROGLASS P2 PRIMER** or **DUROGLASS P1/2**, referring to the respective technical data sheets for application methods.

PRODUCT PREPARATION

Two-component product to be mixed thoroughly before use with a low-speed helical mechanical stirrer, operating as follows:

- Add component B with component A and mix until completely homogenized.

The addition of fillers must be carried out after complete mixing of the two components, homogenizing with the same stirrer. To accelerate curing, add 0.5% by weight of **ACCELERANT** to the total product. To carry out shelling and smoothing, thicken the product with 1-2% by weight of **THICKENER** dispersed by stirring for 5 minutes.

DILUTION AND COLOUR

The product is available in the neutral converter version, which can be coloured with:

- 0.72 Kg of **SOLIDGLASS** colour paste.

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PRODUCT APPLICATION

DUROGLASS P5/5 can be applied by:

- Trowel

The consumption of **DUROGLASS P5/5** varies according to the type of coating desired.

- Film 400-550 micron** thick: apply 0.65-0.8 Kg/m² of pure **DUROGLASS P5/5** with a trowel or roller, going over with a bubble-breaker roller.
- 1000 micron self-levelling product**: apply with a spatula, going over with a **DUROGLASS P5/5** bubble-breaking roller filled with 1: 0.5 in weight with quartz 0.01 – 0.03 mm with a consumption of pure product equal to 1 kg/m².
- 2000 micron self-levelling product**: apply with a spatula, carefully and repeatedly using a **DUROGLASS P5/5** bubble-breaker roller loaded up to 1:1 by weight with quartz 0.01-0.3 mm (M1) with a consumption of pure product equal to 2kg/m². If it is necessary to create self-levelling coatings with thicknesses greater than 2 mm, Increase the material consumption and the fill ratio proportionally.

EXAMPLE:

- 3000 micron self-levelling**: apply with a spatula, carefully and repeatedly with a **DUROGLASS P5/5** bubble-breaker roller loaded 1:1.5 by weight with quartz 0.1 - 0.5 mm (M1) with a consumption of pure product equal to 2.5 kg/m².
- 2000-2500 micron non-slip multilayer coating**: apply with a roller or spatula, passing over 0.5-0.8 kg/m² of **DUROGLASS P5/5** with a bubble-breaking roller.
After perfectly levelling the applied thickness, saturate the wet surface with a large excess of quartz 0.1-0.5 mm (S2) or 0.3-0.9 mm (S3) or 0.7-1.2 mm (S5) according to the degree of non-slip desired.
After a minimum of 24 hours, vacuum the excess quartz by brushing vigorously to eliminate the partially adhering aggregate and sand.
Saturate with a roller or spatula with 0.7-0.8 kg/m² of **DUROGLASS P5/5**, going over with a bubble-breaker roller to make the surface uniform.

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WARNINGS AND PRECAUTIONS

- Finely dust the self-levelling layers with corundum B60 to obtain smooth, slightly non-slip surfaces.
- **DUROGLASS P5/5** must be applied at substrate temperatures **definitely higher than +10 C°**. Failure to comply with this condition will cause drops of water or aqueous solutions that can cause stains or halos.
- Once cured, the MATT type must be carefully washed with a rotating floor machine and detergent, followed by rinsing and drying. The best results are obtained with mildly abrasive detergents.
- Different quantities or types of filler in the same application can produce colour differences.

SAFETY AND CLEANLINESS

When applying these products, it is recommended to use goggles, masks and rubber gloves and all the PPE required by current regulations.

Work tools must be cleaned with the thinner **DILUENTE 21** after use.

For more information regarding the precautions for use, please refer to the safety data sheet.



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TECHNICAL DATA

Colour		Colour palette
Specific weight	UNI EN ISO 2811-1	1,50 ± 0.05 Kg/l
Mix ratios		Summer version 100 parts by weight basis 22 parts by weight of hardener Winter version 100 parts by weight basis 29 parts by weight of hardener
Viscosity at 20°C	EN ISO 2555	1500 ± 300 mPa·s
Pot life 22°C	UNI EN ISO 9514	50 minutes
Curing at 22°C, 50% R.H.		- dry to the touch: 10 hours - walkable with caution: 4 days - fully cured: 10 days
Mechanical properties after 30 days at 22°C, 50% R.H. mix 1:1 with Quartz M1		
Abrasion resistance	UNI EN ISO 5470-1	Taber Grinder H22, 1000 g, 1000 rpm < 200 mg
BCA wear resistance	UNI EN 13892-4	0 µm
Slip resistance	UNI EN 13036-4	Dry: 83 Wet: 18
Impact resistance	EN ISO 6272	20Nm
Resistance to falling weights	UNI EN ISO 6272	Fall height at 2 m: passes
Adhesion strength	UNI EN 13892-8	> 3 MPa
Shore D hardness	EN ISO 868	> 80
Chemical resistance	EN 13529	Sulphuric acid 20%: Class II Sodium Hydroxide 20%: Class II Surfactants: Class II
Storage		The product in its original sealed packaging kept in a dry and protected place at temperatures between +5°C and 35°C will keep for 12 months.

The data and instructions given in this sheet, based on the best practical and laboratory experiences, are to be considered in any case indicative. Considering the different conditions of use, and the intervention of factors independent of MPM (support, environmental conditions, technical laying direction, etc.) whoever intends to use it is required to establish whether or not the product is suitable for use. Our warranty obligation is limited to the quality and constancy of the finished product for the above data, only for technical sheets accompanied by stamp and countersignature by our delegated personnel. site. Furthermore, the customer is required to verify that these values are valid for their relevant batch of product and are not superseded and/replaced by subsequent editions and/or new formulations. The data contained may vary at any time without prior notice by MPM.