

POLYURETHANE APPLICATION

INFORMATION ON USAGE

Name

THIN FILM POLYURETHANE APPLICATION

Description

Modified polyurethane resin based floor coating. Pigmented, waterproof, scratch-resistant, dustproof, with high wear resistance. High surface strength, applicable to concrete substrates designed to withstand light wheeled vehicle traffic; it can also be made with antiskid finish

Principal application

Indoors / Outdoors

- food industries
- chemical and pharmaceutical industries
- mechanical engineering
- electrical and electronic engineering
- garages and covered car parks
- industrial warehouses

Suitability of the substrate (concrete)

Residual moisture content: < 5%
Compressive strength: > 22 MPa
Surface resistance to tearing: > 1.5 MPa

CHARACTERISTICS

Application components

Stabiliser / Primer: Epoxy Fondo or Epoxy Primer XB
Wear Layer: Paviglass + fine glass or Microfibre 80 beads (for antiskid finish)

(See product technical information sheet)

SUBSTRATE PREPARATION

Specific tools and preparation techniques are applied according to the underlying substrate (new or old) and its physical format (concrete, stoneware, klinker, etc.)

Proper analysis of the substrate is essential to selecting the right preparation method from among those available

- Non destructive preparation of the surfaces using a special triple-head sander with silicon-carbide tools or a sanding machine. This involves removing any loose parts of the surface and, where possible, eliminating surface roughness, thus preparing the substrate for subsequent coating
- Dry blasting of the surface with metal shot of various dimensions, by means of dust trap systems, to decontaminate the substrate and make it ready for subsequent treatment. This treatment also directly removes all those parts of the substrate that are poorly adhering and/or loose

After completing the last two preparation operations and before the finishing application, general skimming is required to render the surfaces uniform and increase their mechanical resistance.

Depending on the thickness of the substrate removed and/or abraded, proceed with:

Intermediate layer (approximately 24 hours after the substrate has stabilised)

- Preparation of an intermediate layer (approx. thickness 1 mm) by applying Epoxy Fondo mortar, obtained by mixing Epoxy Fondo with graded quartz extender Quarzo o6 in a ratio of 1:0.7 (Epoxy Fondo 1 kg : Quarzo o6 0.7 kg). While applying the product, remove all air with a bubble-buster roller
Recommended use: 1.6 - 1.8 kg/m²/mm of thickness

- Prepare the intermediate layer (minimum thickness 1 mm; maximum thickness 10 mm), in a single step, by applying the fast-setting, self-levelling mortar Towlevel (TOWER), obtained by mixing 24-25% water at a rate of 6-6.25 l of water for every 25 Kg of Towlevel (TOWER). Once the mortar has been mixed with a slow speed electric mixer, apply it using a metal trowel or blade
Recommended use: 1.6 kg/m²/mm of thickness

(See product technical information sheet)

APPLICATION

Stabiliser / Primer

- Apply the specific epoxy primer, Epoxy Fondo or Epoxy Primer XB with a roller; the quantity must be adequate to the function
Recommended use: from 150 to 250 g/m² depending on the absorption capacity of the substrate on which it is applied

Wear layer (approximately 24 hours after application of stabiliser / primer)

- Finish by applying two coats of the two-pack, polyurethane-based formulation, Paviglass
Recommended use (with one coat): 100-120 g/m²
- In the case of antiskid finishing, proceed as follows: after applying the first coat of Paviglass, wait 24 hours and then apply a second coat of Paviglass at a rate of 100-120 g/m² with the addition of 20% fine glass beads or 5% Microfibra 80

PAVIGLASS: PHYSICAL / MECHANICAL PROPERTIES

Specific gravity

1.20 ± 0.05 kg/l

Solids content

68 ± 2 %

Viscosity at +23° C approx.

20" - 24" in Ford cup

Application temperature

between +10°C and +35°C

Curing time at +23°C

- Dust dry: 4 hours
- Touch dry: 12 hours
- Walkable with caution: 24 hours
- Full curing time: 7 days

Concrete adhesion > 1.5 Mpa

N.B. This Technical Information Sheet is compiled to the best of our technical/scientific knowledge. Nevertheless, it is not binding and does not imply that we are responsible, as the conditions of use are outside our control. It is recommended that the product is always checked as being suitable for the specific application.

IVAS Industria Vernici S.p.A. – Via Bellaria, 40 – 47030 San Mauro Pascoli (FC) – Italy
Tel. 0541 815811 Fax 0541 933112 www.gruppoivas.com ivas@gruppoivas.com