

INFORMATION ON USAGE

Name

THIN FILM W EPOXY APPLICATION

Description

Modified epoxy resin based floor coating, in aqueous phase. Pigmented, waterproof, dustproof. Good resistance to wear and surface strength, applicable to concrete substrates designed to withstand light wheeled vehicle traffic; can also be made with antiskid finish

Principal application

Indoors

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

Suitability of the substrate (concrete)

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

Total thickness of coating

About 250 microns

CHARACTERISTICS

Application components

Stabiliser / Primer: Epoxy Primer WB or Aquacem
Wear Layer: Aquapox + fine glass 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
- Scarification using mechanical equipment with widia tools to remove those parts of the concrete that are poorly adhering and/or loose or to abrade ceramic enamel.
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 06 in a ratio of 1 : 0.7 (Epoxy Fondo 1 kg : Quarzo 06 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 of the substrate

- Apply the specific epoxy primer, Epoxy Primer WB or Aquacem with a roller; the quantity must be adequate to the function.
Recommended use (with one coat): 150 g/m² depending on the absorption capacity of the substrate on which Epoxy Primer WB is applied and about 300 g/m² of Aquacem

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

- Finish by applying two coats of the two-pack formulation, Aquapox
Recommended use: 150-200 g/m² per coat
- In the case of antiskid finishing, proceed as follows: after applying the first coat of Aquapox, wait 24 hours and then apply a second coat of Aquapox at a rate of approximately 150-200 g/m² with the addition of 20% glass beads

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.

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