

SELF-LEVELLING WATER-BASED EPOXY APPLICATION

INFORMATION ON USAGE

Name

SELF-LEVELLING WATER-BASED EPOXY APPLICATION

Description

High build, continuous coating for self-levelling/multi-layer flooring, with modified epoxy resin in aqueous emulsion. Pigmented, waterproof. Superb mechanical and chemical performance, with smooth or slip-proof surface.

Principal application

Indoors

- *food industries*
- *chemical and pharmaceutical industries*
- *mechanical and electronics industries*
- *garages and covered car parks*
- *coating for flooring of underground parking lots*

Suitability of the substrate (concrete)

Residual moisture content: < 5%
Compressive strength: > 220 kg/cm²
Surface resistance to tearing: > 1.5 MPa

Total thickness of coating

About 3,000 microns

CHARACTERISTICS

Application components

Stabiliser / Primer: Epoxy primer WB / Aquacem
Intermediate layer: self-levelling Aquacem / Epoplast W
Wear Layer: Epoplast W
Finish (protective, if required): polyurethane enamel in water dispersion, Polimat matt or Poligloss glossy

(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.*

(See product technical information sheet)

APPLICATION

Stabiliser / Primer of the substrate

- Apply the specific epoxy primer, Epoxy primer WB (IVAS), with a roller; the quantity must be adequate to the function.
Recommended use: from 100 to 150 g/m² depending on the absorption capacity of the substrate on which it is applied

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

- General skimming to render the surfaces uniform and increase their mechanical resistance by applying a layer of self-levelling Aquacem (IVAS) mortar. While applying the product, remove all air with a bubble-buster roller.
Recommended use: 2 kg/m²/mm of thickness.

Wear layer (approximately 24 hours after stabilising/priming the substrate)

- Application using a notched trowel (with triangular teeth) of the self-levelling finishing mortar composed of the epoxy-based binder, Epoplast W (IVAS), appropriately mixed with supplied quartz extenders (Epoplast W pack C) (IVAS) in a ratio of 1:0.3 (Epoplast W A+B 1 kg : pack C 0.3 kg). While applying the product, remove all air with a bubble-buster roller.
Recommended use: 2 kg/m²/mm of thickness. (A+B+C)

Finishing layer (approximately 24 hours after application of the Wear layer), protective if required.

- Application of two coats of water-based polyurethane finish, applied 6 hours apart, matt Polimat (IVAS) or semi-gloss Poligloss (IVAS) Recommended use (with one coat): 100 - 120 g/m²

(See product technical information sheet)

EPOPLAST W MORTAR: PHYSICAL / MECHANICAL PROPERTIES

Specific gravity

1.7 ± 0.1 kg/l (aggregates included) (A+B+C)

Solids content

75 %

Concrete adhesion > 1.5 Mpa

Application temperature

between +10° C and +35 °C

Curing time at ~ 23°C

- Walkability: 48 h
- Light passage: 4 days
- Full curing time: 7 days
- Shore D hardness after 7 days: 82 ± 5

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. +39 0541 815811 – Fax +39 0541 815815 www.gruppoivas.com ivas@gruppoivas.com

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