

## INFORMATION ON USAGE

### Name

*MEDIUM THICKNESS APPLICATION*

### Description

*Modified epoxy resin based, medium thickness, continuous coating for floors. Pigmented, waterproof, solvent free. High mechanical and chemical performance, applicable to substrates of different physical formats, designed for particularly heavy wheeled vehicle traffic*

### Principal application

#### **Indoors**

- *food and beverage industries*
- *textile and paper mills*
- *chemical and pharmaceutical industries*
- *precision engineering industries*
- *electrical and electronic engineering*
- *garages and covered car parks*

### Suitability of the substrate (concrete)

*Residual moisture content: < 5%*  
*Compressive strength: > 220 kg/cm<sup>2</sup>*  
*Surface resistance to tearing: > 1.5 MPa*

### Total thickness of coating

*About 3000 microns*

## CHARACTERISTICS

### Application components

*Stabiliser / Primer: Epoxy Fondo in various versions*  
*Intermediate layer: Epoxy Fondo mortar*  
*Wear Layer: Epoxy Paint HT*

***(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 scarcely adhering and/or loose*

## APPLICATION

### Stabiliser / Primer of the substrate

- Apply the specific epoxy primer, Epoxy Fondo with a roller; the quantity must be adequate to the function. Recommended use (with application of a single coat): from 150 to 250 g/m<sup>2</sup> depending on the absorption capacity of the substrate on which it is applied.

### Intermediate layer (approximately 24 hours after stabiliser / primer)

- General skimming to render the surfaces uniform and increase their mechanical resistance by applying Epoxy Fondo mortar, obtained by mixing Epoxy Fondo with graded quartz extender Quarzo 06 in a ratio of 1 : 1 (Epoxy Fondo 1 kg/m<sup>2</sup> : Quarzo 06 1 kg/m<sup>2</sup>)
- Apply quartz extender powder until the surface is saturated  
Recommended use of Quarzo 06, approx. 3 kg/m<sup>2</sup>
- Vacuuming of any unincorporated quartz

### Wear layer (approximately 24 hours after application of the intermediate layer)

- Application, with roller or trowel, of a first coat of the epoxy compound, Epoxy Paint HT, at a rate of 600 g/m<sup>2</sup>
- Apply quartz extender powder until the surface is saturated  
Recommended use of Quarzo 06 approx.: 3 kg/m<sup>2</sup>
- Vacuuming of any unincorporated quartz
- Application of finishing coat with a roller 24 hours after first coat, at a rate of approximately 400 gr/m<sup>2</sup>

## EPOXY PAINT HT: PHYSICAL / MECHANICAL PROPERTIES

### Specific gravity of mixed product

1.45 ± 0.5 g/dm<sup>3</sup>

### Solids content

100 %

### Application temperature

Between +10°C and +35°C

### Viscosity at +23°C

2200 - 2300cP

### Mechanical Properties after 7 days at +23°C

(mechanical properties are indicative and serve as reference to identify what category the product falls under)

Compressive strength: approx. 83 MPa

Flexural tensile strength: approx. 39 MPa

Concrete adhesion > 1.5 Mpa

### Curing time at ~ 23°C

- Dust dry: 8 hours
- Touch dry: 12 hours
- Light passage: 48 hours
- Full curing time: 7 days

COMPLETE CATALYSIS

**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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