MELZI edilizia e restauro

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FLOORING SYSTEMS:
Finishes / Two-Component Epoxy Paints (Solvent)

DUALENE EPX PAV

Scheda tecnica

DESCRIPTION AND FIELDS OF USE

Two-component, solvent-based, epoxy resin enamel for the protection of interior floors subject to pedestrian traffic and rubber-tired vehicles. Filled product with non-slip characteristic, particularly suitable for industrial environments with processing cycles that keep the flooring wet. Available in non-slip filler sizes (max. curve head), 0.15 and 0.30 mm.
The product is not suitable for the treatment of substrates subject to counterthrust water and generally wet without adequate treatment.

MAIN FEATURES.

The fillers used provide the coating with high resistance to abrasion, making it suitable for the treatment of surfaces subject to wear or that due to special conditions (presence of water, condensation, inclination), may become slippery. The protective film prevents oil and water from penetrating the pavement, giving good chemical resistance to the treated substrate.
The product has strong adhesive capacity. The material reaches maximum mechanical strength after approx. 10 days after application, at 25°C.
The abrasion resistance and non-slip property are direct consequences of the roughness of the coating. In some cases this characteristic can cause high dirt retention. To decrease it, the surface can be treated with specific clear paints that reduce dirt retention, making it easier to clean without excessively reducing the non-slip properties.

APPLICATION DATA

The substrate must be clean, free of substances that hinder the adhesion of the product (waxes, silicones, oily traces), compact; a slight presence of moisture does not affect adhesion. The presence of counterthrust water, not properly treated, in the pavement can cause the coating to detach. New cementitious substrates must have been cured for a minimum of 40 days. Absorbent substrates must be preliminarily treated with DUALENE EPX FTR primer (see data sheet). Very smooth substrates with deeply absorbed oily substances and with previous coatings in place must be roughened by appropriate mechanical intervention (shot peening, milling, sanding). When treating surfaces that have already been painted, provided that the old coating is well anchored to the substrate, sampling must first be carried out to check adhesion on the previous product
Base product and hardener should be mixed thoroughly before use, if possible mechanically.
The product is applied without dilution, if necessary adjust the fluidity with max. 5% by volume of epoxy thinner. Do not exceed dilution so as not to reduce the final thicknesses and with them the performance of the coating.
Application is done by roller, brush, spray including airless. When the primer preparation has dried, in any case within 24 h, apply the first coat of top coat. Regardless of the application system adopted wait until it is completely dry before applying the next layer

next layer. Spread the final layer within 24 h in order not to compromise its adhesion on the previous excessively cross-linked layer.
Use nitro or epoxy thinner immediately after use to clean tools.
Operate at temperatures between 10-30°C (use below 10°C prevents catalysis reaction), including of the substrate and at R.H. < 80%.
For the final layer, use product from a single batch to avoid slight color differences.

YIELD

Yield varies depending on the roughness and absorption of the substrate. The minimum thickness of dry film to be deposited for each coat in order to obtain good protection must be 70 microns. On average this is achieved by treating approx. 8-10 m2/L of product. An optimal coating should provide an overall dry film thickness of not less than 120 microns, obtained by applying two coats with an average total yield of 4-5 m2/L. A third coat may be required under high wear conditions.

TECHNICAL DATA.

Mixture ratio by weight (P base/Ind.)	87/13 (100/15.1)
Bulk density	1.42 kg/L
Dry residue by weight	65%
Dry residue by volume	53%
Pot-life at 22°C ca.	6 h
Hardening at 22°C to touch	6 h
complete	8 days
Walkability	min. 48 h with caution
Abrasion resistance (UNI EN ISO 7784-2 - CS 10 - 1 kg)	1000 rpm<40 mg
Slipperiness degree:	
BCRA coefficient of friction µ (versions 0.15-0.30)	
dry-leather	0.70
wet-rubber	0.90
DIN 51097 slip angle (wet surface barefoot)	
0.15	12.2 class A
0.30	16.3 class A
DIN 51130 slip angle	
0.15	21.6 class R11
0.30	30.0 class R12
Stability in original packaging	12 months

VERSION 21/12. Product for professional use.
The user must assess whether the product is suitable for use in terms of type and method of use, on which the final performance depends.
This sheet replaces and cancels the previous ones

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