

IDROSMALTO EPOSSIDICO PER PAVIMENTI COMP. A + COMP. B EPOXY WATER BASED ENAMEL FOR FLOORS COMP. A + COMP. B

TYPE

Fast-drying semigloss enamel formulated with a blend of water-emulsified epoxy resins and aliphatic polyamines.

USE

Protective two-coat covering suitable for treating cement/concrete surfaces (floors) to withstand foot or vehicle traffic, heavy or otherwise provided wheels have tyres. The polymerized film features remarkable superficial hardness, abrasion resistance, good mechanical resistance and resistance to oils, fuels and common cleaning liquids.

GENERAL PROPERTIES (on hardened product)

Specific weight g/l 1390 ± 30

Viscosity 80 -90 K.U.

Solids content by volume % 56 ± 2

Recommended thickness per coat μ 50 -60

N° coats 2

Theoretical spreading rate m²/l 9 -11

Gloss level 30 -40

Flash point (closed cup) °C not flammable

Heat resistance °C 100

Mixing ratio by weight: 48 / 52

by volume: 45 / 55

POT-LIFE: 3 hrs

4 AVAILABLE CONVERTERS

NEUTRAL

WHITE

YELLOW

RED

SURFACE PREPARATION

Before being coated, cement/concrete surfaces must be thoroughly cleaned to eliminate rough casting edges, and any parts that are not perfectly coherent or are crumbling away.

Any cracks or fissures in the surface must be prised open and treated with a suitable mortar to provide a perfectly even surface. The same epoxy enamel for floors can be used as a base coat, thinned at 5 – 10% depending on how absorbent the surface is. Alternatively, use another suitable primer.

Surface conditions: curing 28 days, moisture content < 4%.

PRODUCT PREPARATION

Base and hardener (comp. A + comp. B) before they can be used, components must be stirred to an even mixture, where possible with a mechanical mixer. Hence, mix the two components slowly for 5 - 10'. To improve the general properties of the protective system we recommend an induction period of around 15 - 20'.

Thin with water (drinking water) in the ratio 5 -10% for application of the first coat only. It is preferable to apply the second coat without thinning at all to obtain a perfectly even surface.

APPLICATION

The product can be applied with a brush or, preferably, a medium/long-bristle roller. Since the product is water-based, you must bear in mind that the product should not be applied or left to harden when temperatures are below 7 – 8°C and relative humidity over 80% .

We recommend you apply the 2nd coat at least 12 – 16 hours after the first.

All equipment should be washed with detergent under running water as soon as you are done. If you leave cleaning too late, regular cleaning solvents must be used (nitro solvent or other suitable product).

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NOTE: once mixed, the product must be used within 3 – 4 hours. Even though the product's viscosity does not actually tend to increase much over time, if left any longer the resulting films may be less hard and feature poor abrasion and water resistance.

DRYING (determined at 20°C and 70% RH)

White converter

Dust dry 30' -60'

Mark-proof 3 -4 hours

Through drying after 24 -36 hours

Recoatibility 16 – 24 hours (see notes)

Notes: when humidity in the environment is high, water-based products have longer drying times as the water contained evaporates more slowly. A good way to accelerate evaporation is to use a stream of warm air.

Whatever the case, remember that good ventilation (letting fresh air in) whilst applying water-based products is essential if the product is to dry thoroughly.

RESISTANCE PROPERTIES

When coated over with water-based (or solvent-based) epoxy finishes, the epoxy primer features outstanding resistance to water, salt solutions, aliphatic hydrocarbons (petrol, Diesel fuel), and mineral and vegetable oils. On the other hand, it features poor resistance to solvents and organic acids, even in low concentrations. Consequently, contact with such chemical agents should be kept to a minimum. Water and chemical resistance is generally achieved after 48 – 72 hours of air drying under optimal temperature and humidity conditions.

STORAGE

If stored in its original, tightly sealed container, above freezing, and nonetheless kept at a temperature in the range 5 to 40 °C, the product retains stability for 12 months from the production date. After this period, the product should be checked first before it is used.

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