



EP100

0001

Epoxy paints

2K-Epoxy Thick-Layer Paint

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|---|---|
| Trade name / Product code | EP100 / 0001 |
| Material base | Epoxy resin |
| Glossiness level | Glossy |
| Hardener | EP100-B |
| Thinner | EP100 paint is not designed to be diluted! |
| Hardening ratio Paint : hardener | 2 : 1 (100 : 50) parts by weight 1.85 : 1 (100 : 54) parts by volume |
| Pot life | Max. 30 minutes / 20 °C Max. 2 minutes / 80 °C |
| Processing data | <p>Hot airless spraying Thinner: Both the base and the hardener must not be thinned!</p> <p>Application viscosity: As supplied Mix temperature at output: 65 – 70 °C Special two-component mixing gun.</p> <p>The minimum temperature of both the base and the hardener before processing should be 10 - 25 °C! Hot airless spraying After opening the packages, mix both the base and the hardener thoroughly separately. Then connect the containers with the components to the two-component spraying device with the mixing gun. Neither the coating components nor the processed mix must be thinned!</p> |
| Processing | <p>Repairs When using less than the whole package, weigh the pre-calculated quantity of paint (2 parts of base and 1 part of hardener by weight). Mix both components thoroughly and apply the processed mix with a spatula onto the spots to be repaired.</p> |
| Drying times at 20 °C Coat thickness 1000 µm | <p>Dustproof / 20 °C: 60 minutes Touch dry / non-sticking / 20 °C: 100 minutes Workable / 20 °C: 16 hours Final curing time / 20 °C: 7 days The rate of cure and achieving the final properties vary depending on the climatic conditions and coat film thickness. Additional drying temperature: max. 60 °C</p> |
| Technical data | <p>Colour: green Supplier viscosity, 20 °C: thixotropic Density, base, 20 °C: 1.50 to 1.60 g/cm³ Density, processed mix, 20 °C: 1.50 to 1.60 g/cm³ Dry matter content, base: approx. 98 % by weight Dry matter content, processed mix: approx. 98 % by weight approx. 97 % by volume VOC content, processed mix: approx. 20 g/kg approx. 31 g/l</p> |



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Application data

Total organic carbon TOC content, processed mix: 16 g/kg

Theoretical spreading rate: 0.63 m²/kg

Dry film thickness 1000 µm

Consumption depends on object shape, surface roughness, and application technique and conditions.

Application conditions

Air temperature: +10 to +30 °C

Base and hardener temperature: +10 to +60 °C

Object surface temperature: min. 3 °C above dew point

Steel surface can be pre-heated to max. 60 °C.

Relative humidity of air: max. 70 %

Number of coats: 1

Wet film thickness: 1000 – 1100 µm

Dry film thickness: min. 1000 µm

The thickness of a coat applied in a single working step on a vertical surface depends on object shape, surface roughness, and application conditions.

Maximum recoating interval: 4 hours / 20 °C. After 4 hours of drying, the coat should be reground slightly to facilitate adhesion of the next coat.

Application

Barrier anti-corrosive coat to protect the external surfaces of steel vessels and steel objects covered with earth.

Surface preparation Steel

Any grease, scale, old coats, corrosion products and dust have to be removed thoroughly from the metal surface at least to degree Sa 2½. Any welds and sharp edges must be ground off. This method of surface preparation allows achieving the optimum anticorrosive properties of the coats. Paint application should be started within 6 hours of blasting at the latest to avoid flash corrosion occurrence!

Utility properties

Adhesion to steel surface: min. 12 MPa (ČSN EN ISO 4624)

Hardness: 52 %

Temperature resistance:

Long-term in earth: 80 °C

Short-term (max. 60 minutes, dry): 120 °C

Chemical and physical resistance:

The coating system is fully cured after 7 days at 20 °C. Only after this period the coat can be exposed to the utility load. The cured coat provides excellent mechanical resistance, being resistant to abrasion, shock, and impact. In the long-term, it resists the action of soil, soil humidity, soil gases, waste water, microbiological attacks, and action of roots of plants and trees in soil.

For more details please contact our technical department.

Cleaning and maintenance

The mixing and application tools should be cleaned as soon as possible with thinner C6000 or S6300.

Packages

1 kg to 200 kg metal packages as agreed.

Shelf life

Paint - 12 months; hardener - 6 months from the date of manufacture if kept in the original closed packages in a dry room, out of direct sunlight and at a temperature from +5 to +30 °C. The storage areas should meet all the conditions for storage of hazard class II combustibles.

Documentation

Technical Application Guide
Material Safety Data Sheet



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Waste disposal

Coating composition N 08 01 11 Waste paints
Empty packages N 15 01 10 Packages containing residues of hazardous substances

Disclaimer

The product data provided in this Technical Application Guide results from the current level of production, laboratory and application tests. The manufacturer reserves the right to make revisions according to the state of development. As the product is used frequently beyond our control, we cannot guarantee anything else than the quality of the product as such. We are not liable for any mistakes occurring due to wrong application, application past the shelf life or improper storage.

This document only provides non-binding information that has to be concretized by the end user for the specific product type. On no account this document supersedes the identification data of this product specified in the material safety data sheet.

Date of issue

31. 5. 2015

Revision date

31. 5. 2015

Before starting works with this product, ALWAYS read thoroughly the relevant material safety data sheet and the material safety data sheets of the applicable hardener! Observe the safe handling and occupational safety instructions.

For more detailed information please contact our technical department.