

Product description:

2-component epoxy-based priming coat, solvent-based. Active pigment: zinc powder

Applications:

Excellent active corrosion protection priming coat for abrasive-blasted structural steelwork, containers, pipelines in petrochemistry, mining, hydraulic steelwork, shipbuilding, etc.
High content of non-volatile matter, fast-drying, hardly saponifiable, high resistance to sea and fresh water, after hardening insoluble in mineral oils and aliphatics, good weathering resistance.

Hardener:

VESTOPOX hardener ZH51-000000 (basis: amine adduct)

Article numbers, colour:

E.g. MG46-0703, grey
Other colour shades on request.

Technical specifications (relating to the mixture):

Flash point:	above +24 °C
Viscosity:	intrinsically viscous
Density:	approx. 2.5 g/ml
Mixture ratio:	17 : 1 with ZH51-
Pot life:	approx. 8 hours (room temperature)
Dry film thickness (DFT):	80 µm
Solid density:	approx. 57 %
Tinctural power (theoretical):	approx. 2.7 m ² /kg at 80 µm DFT
VOC value:	approx. 415 g/l
Organic solvent content:	approx. 14 % by weight
Temperature stability:	max. +160 °C, dry heat (permanent exposure) max. +180 °C dry heat (max. exposure)

The Technical Data indicated are subject to variations depending on colour shade and production process.

Drying times:

Dust-dry:	after approx. 30 minutes
Fast to handling:	after approx. 2 hours
Ready for rework:	after approx. 4 hours (spray coating)

The values indicated apply to the dry film thickness at (standard atmosphere) +20 °C and 55 % relative humidity.

Working temperature/humidity of air:

+5 °C to +35 °C

The substrate temperature must be at least 3 °C above the dew point of the ambient air.

The relative humidity of air should not exceed 85 %.

Thinner:

VESTOCOR EP thinner VK14-, also for tool cleaning.

Subsequent coats:

Depending on requirements VESTOCOR products based on: VESTOPLAST, VESTOPOX, VESTOPUR

Substrate preparation:

Steel: abrasive blasting to preparation grade Sa 2.5 of the standard DIN EN ISO 12944-4. An optimal bond of zinc powder-containing coatings can generally only be achieved after abrasive blasting with sharp-edged blasting material. The residual salt concentration of the blasted surface prior to coating must not be greater than 50 mg/m².

Applying:

Brush/roller: when using a brush the coating has to be applied uniformly and deeply and spread. Due to fast drying make sure to work quickly. Generally, the coat is to be applied without thinning.

Airless spray painting: generally from delivery state, if required add 5 weight per cent VESTOCOR thinner as a maximum.

Minimum pressure: approx. 120 bar

Nozzle: approx. 0.41-0.58 mm

Repair of transport and installation damages:

Recommended surface preparation: abrasive blast flaws to preparation grade Sa 2,5 of the DIN EN ISO 12944-4. Repair with VESTOZINK 2K-EP-Zinkstaub RAPID. If - for technical or environmental reasons - only a power rust removing to PSt3 acc. to DIN EN ISO 12944-4 is possible, repair can also be done with VESTOPOX 2K-EP primer ZG80.

Storage and identification according to hazardous substance/workplace safety regulations:

For the identification according to valid hazardous substance regulations see the associated Material Safety Data Sheets and labels.

Storage life:

Main component: approx. 12 months in case of proper storage of non-opened drums at +5 °C to +25 °C.

Safety and protection precautions:

When processing note the safety and health at work rules from the trade association, BGR 500, chapter 2.29, as well as the relevant EC Material and Safety Data Sheets. In liquid state, the products are classified to be hazardous to waters, and therefore they must not come into waters. For further details see the trade association's instruction sheet MO23 "Polyesters and epoxy resins".

Notes:

If too thick films are applied, scission in the excessively thick zinc powder coat due to cohesive fracture may occur after outdoor weathering or after application of finishing paints. Therefore avoid a higher than approx. 150 µm film thickness.

Information and recommendations in this document are based on today's state of our knowledge and are intended to inform purchasers. They do not exempt purchasers to check the products for their suitability and application. We guarantee a perfect quality within the scope of our general terms and conditions of business. All previous Technical Data Sheets cease to be valid.