

Product description:

2-component finishing coat based on a combination from epoxy resin and polyamine adduct, solvent-based. High abrasion resistance, high hardness and impact strength, excellent resistance to chemical and mechanical stresses, in particular to alkaline influences. When exposed to oils, fuels, salt and thinned acids it shows a good resistance. Epoxy finishing coats are limited chalk-resistant.

Applications:

Finishing coats for corrosion prevention systems on structural steelwork and hydraulic steelwork exposed to harsh environments such as water, salt and thawing salt.

Hardener:

VESTOPOX hardener ZH55-000000 (base: amine adduct)

Article numbers, colour:

ZD75-5010, RAL 5010 gentian blue
Other colour shades on request.

Technical specifications (relating to the mixture):

Flash point:	above +23 °C
Viscosity:	intrinsically viscous
Density:	approx. 1.28 g/ml
Mixture ratio:	6:1 with ZH55-
Pot life:	approx. 2-3 hours (room temperature)
Dry film thickness (DFT):	60 µm
Solid density:	approx. 57 %
Tinctural power (theoretical):	approx. 7.4 m ² /kg at 60 µm DFT
VOC value:	approx. 383 g/l
Organic solvent content:	approx. 30 % by weight
Temperature stability:	max. +180 °C, dry heat (permanent exposure) Colour shade changes may occur from +120 °C.

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

Drying times:

Dust-dry:	after approx. 25 minutes
Fast to handling:	after approx. 1 hour

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 epoxy thinner VK14-, also for tool cleaning.

Priming coats:

Depending on requirements VESTOCOR products based on: VESTOZINK, VESTOPOX

Substrate preparation:

Steel: for a complete coating build-up, abrasive blasting to preparation grade Sa 2.5 as per DIN EN ISO 12944-4. Sharp blasting shot is recommended when using zinc powder priming coats. If old priming coats are present, the surface must be dry, free of oil and grease as well as free of interfering soiling such as salt or the like. In case of doubts remove it by steam jet cleaning.

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. Use short-haired lamb-skin rollers for roller application. 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. 0.28-0.48 mm

Repair of transport and installation damages:

The substrate surface must be dry and free from dirt and dust. Spots with damaged zinc coat e.g. due to welding have to be reblasted or at least mechanically pretreated to PMa as per DIN EN ISO 12944-4. Then, they can be repaired with VESTOPOX 2K-EP-Grund OT ZG76- or VESTOPOX 2K-EP-1.Deck RAPID ZG75- and the specified top coatings.

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, hardener: approx. 6 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".

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.