

Product description:

2-component coat based on an epoxy/amine adduct combination, low-solvent and therefore not harmful to the environment. Complies with the VOC guidelines. In case of outdoor exposure colour shade changes typical for 2-component epoxy coats may occur. Abrasion resistant, high hardness and impact strength, excellent resistance to chemical and mechanical stresses, in particular to alkaline influences. Very good resistance to oils, fuels, salts and thinned acids. With this product, a film thickness up to 1000 µm can be applied in a single application pass. This results in a huge cost saving. Can be applied by airless spray-painting.

Applications:

Coatings for steel constructions and plants with heavy exposure by water, salt and thawing salt. Examples include hydraulic steelwork, structural steelwork with permanent wet exposure as well as tank farms and buried objects.

Hardener:

VESTOPOX hardener ZH97-000000 (standard)
(basis: modified cyclo-aliphatic amine product)

Article numbers, colour:

ZD91-7702, DB 702 grey / EU
ZD91-0905, black similar to RAL 9005
Other colour shade on request

Technical specifications (relating to the mixture):

Flash point:	above +55°C
Viscosity:	intrinsically viscous
Density:	approx. 1.62 g/ml
Mixture ratio:	100:20 with ZH97-
Pot life:	approx. 40 minutes (room temperature)
Dry film thickness (DFT):	approx. 500-1000 µm
Solid density:	approx. 99 %
Tinctural power (theoretical):	
Steel:	approx. 1.2 m ² /kg at 500 µm DFT
VOC value:	approx. 6 g/l
Organic solvent content:	approx. 0.7 % by weight
Temperature stability:	max. +160 °C, dry heat Colour shade changes may occur from +160 °C.

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

Drying times:

Dust-dry:	after approx. 3 hours
Fast to handling:	after approx. 6 hours
Recoatible:	after approx. 12 hours

The values indicated apply to the dry film thickness at (standard atmosphere) +20 °C and 65 % relative humidity.

Working temperature/humidity of air:

+10 °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:

A primer is not mandatory. If such a coating is specified, VESTOCOR products on the basis of VESTOPOX or VESTOPUR are suitable depending on the requirements.

Substrate preparation:

Steel: For a complete coating system: abrasive blasting to Sa 2.5 according to DIN EN ISO 12944-4. For existing suitable primary coats: surface to be dry and free from, oil, grease and interfering deposits such as salt or the like. In case of doubts remove deposits by steam jet cleaning. For old coats, compatibility tests must be carried out in any case.

Applying:

Airless spray painting: Generally in delivery state, if required add 3 weight per cent VESTOCOR thinner.

Airless spraying can be done without any thinner addition. It is recommended to preheat the components separately and to mix them only close to the nozzle.

Minimum pressure:	approx. 240 bar
Nozzle:	approx. 0.41-0.60 mm

Repair of transport and installation damages:

Steel: Recommended surface preparation: Blast the flaws to PSa 2.5 or at least to PSt2 as per DIN EN ISO 12944-4. Repair with the specified priming and finishing coats.

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. 6 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 M023 "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.