

Product description:

2-component top coat based on a polyurethane combination, solvent-free and thus eco-friendly. Complies with the VOC guidelines. In case of outdoor exposure colour shade changes typical for 2-component polyurethane 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 700 µm can be applied as a maximum. This results in a huge cost saving. Can be very good applied by airless spray-painting. With anti-skid version, the class R10 as per DIN 51130 can be reached.

Applications:

Finishing coats for steel constructions of any kind in harsh environments, e.g. steelwork and hydraulic steelwork with high stresses due to water, salt and thawing salt, tank farms.

Hardener:

VESTOPUR hardener ZH65-000000 (standard version)
(basis: solvent-free polyurethanes)

Article numbers, colour:

ZD50-7032C5 (standard version)

ZD50-7032E5 (anti-skid version)

According to RAL register, special colour shades on request.

Technical specifications (relating to the mixture):

Flash point:	above +23 °C
Viscosity:	thixotrope
Density:	approx. 1.3-1.5 g/ml
Mixture ratio:	4:1 with ZH65- 6:1 with ZH65- anti-skid version
Pot life:	approx. 1 hour (room temperature)
Dry film thickness (DFT):	400 µm
Solid density:	approx. 98 %
Tinctural power (theoretical):	
Steel:	approx. 1.9 m ² /kg at 400 µm DFT
VOC value:	approx. 23 g/l
Organic solvent content:	approx. 2 % by weight
Temperature stability:	max. +120 °C, dry heat 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. 2 hours

Fast to handling: after approx. 6 hours

The values indicated apply to the dry film thickness at (standard atmosphere) +20 °C and 65 % 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 thinner VN62- also for tool cleaning.

Priming coats:

Primary coat with: ZG80- VESTOPOX 2K-EP-Grund or MG46- VESTOZINK 2K-EP-Zinkstaub and one or two top coatings. No active priming coat is required with standard version and DFT above 400 µm. Use 2K-Epoxy-Einlassgrund BG82- or 2K-Epoxy-Betongrundierung BG84- for mineral substrates.

Substrate preparation:

Steel: for a complete new coating build-up, abrasive blasting to preparation grade Sa 2.5 as per DIN EN ISO 12944-4. General: With existing suitable priming coats, the surface must be dry, free of oil and grease as well as free of 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.

Standard version:

Airless spray-painting: generally from delivery state, if required add 3 weight per cent VESTOCOR thinner as a maximum.

Minimum pressure: approx. 200 bar

Nozzle: approx. 0.41-0.58 mm

Anti-skid version:

Brush/roller: generally in delivery state, if required add 3 % VESTOCOR thinner as a maximum.

Repair of transport and installation damages:

Steel: recommended surface preparation: blast the flaws to PSa 2.5 or at least to PMa 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. 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.