

FEIDOPUR PRIMER ZG17

2C-PU primer

FEIDOPUR PRIMER ZG17 is a high-quality, two-component, ultra high-solid primer based on a special polyurethane formulation. It provides a silky matt finish and is characterized by excellent filling and levelling properties. ZG17 does not chalk, making it suitable for outdoor storage. It is pigmented with active anticorrosion pigments, offering long-term protection.

For coating of all kinds of steel parts with high requirements regarding corrosion protection. Main applications are e.g. within fields of commercial vehicle construction, container and engine construction as well as any other requiring the highest quality polyurethane primer.



TECHNICAL DATA

Fields of application	Machinery, Steel constructions, Transportation equipment, Storage tank		
Recommended substrate	Aluminium, Hot-dip-galvanized steel, Steel, Zinc		
Binder	Polyurethane		
Solids	66 ± 2% by volume		
Volatile organic compound (VOC)	Approx. 349 g/l (DIRECTIVE 2010/75/EU) The VOC value provided is the average value for factory produced products, and consequently it will be subject to variations between individual products covered by this Technical Data Sheet.		
Theoretical spreading rate	Dry film (µm)	Wet film (µm)	Theoretical spreading rate (m²/l)
	60	90	11.0
	80	120	8.25
Practical spreading rate	The values depend on the application technique, surface conditions, overspray, etc.		
Colours	white, sandyellow, RAL 9005		
Gloss (60°)	Matt		
Hardener	Comp. B: FEIDOPUR HARDENER ZH87-02		
Mixing ratio (A:B)	6:1 parts by volume		
Pot life	Approx. 3 h (+20°C)		
Thinner	FEIDOSOLV VZ41		
Density	approx. 1.7 g/ml (depending on the colour shade)		
Storage	Storage stability is 1 year in unopened package. Store in a cool place. Most suitable storage temperature is +5°C - +25°C. Protect from heat and freeze!		

DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and application. Remove also water-soluble salts by using appropriate methods.

STEEL SURFACES: The surface to be treated must be dry, clean, salt-, grease- and dust-free. Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1).

ZINC SURFACES: Hot-dip-galvanized steel structures that are exposed to atmospheric corrosion can be painted if the surfaces are sweep blast-cleaned (SaS) till matt all over. Suitable cleaning agents are, e.g. aluminium oxide and natural sand. It is not recommended according to standard ISO 12944-5 to paint hot-dip-galvanized objects that are subjected to immersion strain. Painting of hot-dip-galvanized objects that are subjected to immersion strain must be discussed separately with Teknos.

ALUMINIUM SURFACES: Residues that may weaken adhesion, such as oil, grease, dust must always be carefully removed before application. Surfaces that are exposed to weathering are also roughened up with sweep blast-cleaning (AlSaS) or sanding.

The place and time of the preparation are to be chosen so that the prepared surface will not get dirty or damp before the subsequent treatment. Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

Application method

Airless spraying, Air-assisted airless spraying, Conventional spraying, Brush, Roller

Application

Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. Before application the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. Mixing by machine is recommended, for example a slow-rotating hand-drill equipped with a mixer. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

Stir thoroughly before use.

When brushing or rolling the material is applied undiluted.

	Airless spray	Air-assisted airless spray	Conventional spray
Thinner	0 – 5 % FEIDOSOLV VZ41	0 – 5 % FEIDOSOLV VZ41	0 – 5 % FEIDOSOLV VZ41
Application viscosity	as delivered	as delivered	25 – 35 s DIN 4
Nozzle	0.011 – 0.014"	0.011 – 0.014"	1.5 – 2.0 mm
Paint pressure	150 – 180 bar	120 – 160 bar	–
Air pressure	–	2.5 – 3.0 bar	3.5 – 5.0 bar

Application conditions

The surface to be treated must be dry. During the application and drying period the temperature of the ambient air, the surface and the product shall be above +5°C and below +35°C and the relative air humidity below 85%. The temperature of the surface to be treated must be at least +3°C above the dew point of the ambient air. During application good ventilation is recommended.

Drying time

+20°C / 65% RH (dry film 50 µm)

- dust free

approx. 1 - 1,5 h

- touch dry

approx. 4 - 6 h

The product obtains the final hardness and durability in normal conditions after about 2 weeks.

Overcoatable

Surface temperature	By itself or by 2C-PU topcoats	
	Min.	Max.*
+20°C	30 min	6 months

* Maximum overcoating interval without roughening.

A completely clean surface is mandatory to ensure the best intercoat adhesion. If the maximum overcoating interval has been exceeded, the surface must be roughened before overcoating. Increase in film thickness and rise in the relative humidity of the air in the drying space slow down the drying process and effect the overcoating properties.

Cleaning

FEIDOSOLV VZ41

HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

The hardener of the product and the ready mixture contain isocyanates. In poorly ventilated areas and especially when using spray application we recommend the use of a fresh air mask. In short or temporary work, a mask with combined filter A2-P2 can be used. In this case eyes and face are to be protected.

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