

# TEKNOPOX PRIMER 4

## Epoxy primer

TEKNOPOX PRIMER 4 is a two-pack solvent-borne epoxy primer.



Used as a primer on blast-cleaned steel. Can also be used for priming zinc, aluminium, thin-plate and acid-proof steel surfaces.

The paint is quickly overcoatable and is therefore suited to a fast painting tempo. It is also suitable for application by twin-feed spray. The paint withstands heavy abrasion, oils, grease, solvents and chemicals.

### TECHNICAL DATA

Recommended substrate	Steel, Aluminium, Zinc		
Binder	Epoxy		
Solids	53 ±2% by volume (ISO 3233:1988)		
Total mass of solids	Approx. 920 g/l		
Volatile organic compound (VOC)	Approx. 440 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	113	8.8
	80	150	6.6
	100	190	5.3
	120	225	4.4
	As many of the paint's properties will change if too thick coats are applied, it is not recommended that the product is applied to a film thickness that is more than double of the thickest recommended film.		
Practical spreading rate	The values depend on the application technique, surface conditions, overspray, etc.		
Colours	Grey, red and yellow.		
Gloss (60°)	Semi-matt		
Hardener	Comp. B: TEKNOPOX 4 HARDENER		
Mixing ratio (A:B)	4:1 parts by volume		
Pot life, +23°C	6 h		
Thinner	Standard thinner: TEKNOSOLV 9506.		
Storage	The storage stability is shown on the label. Store in a cool place and in tightly closed containers.		

## 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. The surfaces are prepared according to the different materials as follows:

**STEEL SURFACES:** Remove mill scale and rust by blast cleaning to preparation grade Sa 2½ (standard ISO 8501-1). Roughening the surface of thin-plate improves the adhesion of the paint to the substrate.

**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.

It is recommended that new zinc-coated thin-plate structures are treated with sweep blast-cleaning (SaS). Surfaces that have been weathered to matt can be treated also with RENSA STEEL washing agent.

**ALUMINIUM SURFACES:** Treat the surfaces with RENSA STEEL washing agent. Surfaces that are exposed to weathering are also roughened up with sweep blast-cleaning (AlSaS) or sanding.

**OLD PAINTED SURFACES SUITABLE FOR OVERCOATING:** Any impurities that might be detrimental to the application of paint (e.g. grease and salts) are removed. The surfaces must be dry and clean. Old, painted surfaces that have exceeded the maximum overcoating time are to be roughened as well. Damaged parts are prepared in accordance with the requirements of the substrate and the maintenance coating.

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.

Prefabrication primer: KORRO E Epoxy, KORRO SE Zinc Epoxy and KORRO SS Zinc Silicate Prefabrication Primers can be used, when required.

Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.

### Application method

Airless spraying

## 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. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties.

Stir thoroughly before use.

Apply preferably by airless spray as only this method provides the recommended film thickness in a single operation.

Suitable airless nozzle size 0.013 - 0.019".

Brush can be used for touching up and painting small areas.

When twin-feed spray is used for application, the mixing ratio of the dosage pump must be 4:1. The feed pump pressure and the consumption of components is to be checked during application to ensure of the correct mixing ratio. The components cannot be thinned if twin-feed spray with fixed ratio is used.

## 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 paint shall be above 0 °C and the relative air humidity below 80%. Additionally, the temperature of the surface to be treated and the product must be at least +3 °C above the dew point of the ambient air.

## Thinning

If needed, thin the paint with TEKNOSOLV 9506.

## Drying time

+23 °C / 50% RH (dry film 60 µm)

## - dust free

15 min (ISO 9117-3:2010)

## - touch dry

1 h 15 min (ISO 9117-5:2012)

## Overcoatable

surface temp.	by itself		with TEKNOPLAST HS 150		with other TEKNOPLAST top coats		with TEKNODUR 0050, 0150, 3410, TEKNODUR COMBI 3430 and TEKNODUR COMBI 3560-75 polyurethane top coats	
	min.	max. *	min.	max. *	min.	max. *	min.	max. *
+10 °C	6 h	6 months	6 h	18 months	6 h	6 months	12 h	7 d
+23 °C	2 h	6 months	2 h	18 months	2 h	6 months	2 h	3 d

\* 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 usually slow down the drying process.

## Cleaning

TEKNOSOLV 9506 or TEKNOSOLV 9514.

## HEALTH AND SAFETY

### Safety and precaution measures

See safety data sheet.

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