

TEKNODUR PRIMER 8-00

Polyurethane primer

TEKNODUR PRIMER 8-00 is a low solvent content two-pack polyurethane primer. The hardener is an aliphatic isocyanate resin.

TEKNODUR PRIMER 8-00 is a high quality, multipurpose primer for steel, zinc and aluminium surfaces.

TEKNODUR PRIMER 8-00 has a high mass of solid content. It forms a dense and even paint film. It is suitable to use as a primer even for demanding top coating, such as coating of transport equipment. Recommended for use with top coats from TEKNODUR 100 series.



TECHNICAL DATA

Recommended substrate	Steel, Aluminium, Zinc	Steel, Aluminium, Zinc		
Binder	Polyurethane			
Solids	56 ±2 % by volume	56 ±2 % by volume		
Total mass of solids	Approx. 990 g/l	Approx. 990 g/l		
Volatile organic compound (VOC)	Approx. 400 g/l (DIRECTIVE 2010/75/EU)			
	The VOC value provided is the average value for factory produced products, and			
	consequently it will be subje	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	107	9.3	
	100	178	5.6	
	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 a etc.	The values depend on the application technique, surface conditions, overspray, etc.		
Colours	White.	White.		
Gloss (60°)	Semi-gloss	Semi-gloss		
Hardener	Comp. B: TEKNODUR HARD	Comp. B: TEKNODUR HARDENER 0010		
Mixing ratio (A:B)	8:1 parts by volume	8:1 parts by volume		
Pot life, +23°C	3 h	3 h		
Thinner	Standard thinner: TEKNOSOLV 9526.			

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Storage

The storage stability is shown on the label. Store in a cool place and in tightly closed containers.

The hardener reacts with air humidity. Store indoors in a cool and dry place and in a tightly closed can. The storage stability is limited.



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 $2\frac{1}{2}$ (standard ISO 8501-1). Roughening the surface of thin-plate improves the adhesion of the paint to the substrate.

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.

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.

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.

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.

Prefabrication primer: KORRO E Epoxy Prefabrication Primer can be used, when required.



Application method	Airless spraying, Air-assisted airless spraying, Conventional spraying Suitable airless nozzle size 0.010 - 0.018".
Application	MIXING OF THE COMPONENTS: 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.
	Before use clean the spray gun and paint vessels with a thinner suitable for the paint.
	Depending on the film thickness wanted the paint is sprayed in 1 - 2 coats. The dry film thickness will then be 40 - 100 µm. When the paint has dried it can be sanded (dry sanding P280/P320, wet sanding P600/P800).
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 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	Standard thinners: TEKNOSOLV 9526, TEKNOSOLV 9521 and TEKNOSOLV 6220.
	Slow thinners: TEKNOSOLV 1640 and TEKNOSOLV 6291. Used e.g. when painting large surfaces and when the temperature is above room temperature.
	Dilute 10 - 20%, when required. Do not use universal thinners, since they may contain alcohol which will react with the hardener.
Drying time - dust free	+23°C / 50% RH (dry film 60 μm) 30 min (ISO 9117-3:2010)

- touch dry 3 h (ISO 9117-5:2012)

- forced drying 60°C/1h

Overcoatable

Increase in film thickness and rise in the relative humidity of the air in the drying

space usually slow down the drying process.

	by itself or with TEKNODUR- or TEKNODUR COMBI-		
surface temperature	series top coats		
	min.	max.	
+5°C	20 h	-	
+23°C	3 h	-	

TEKNOCLEAN 6496 Cleaning



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.

The hardener can must be opened with caution, as pressure may develop in the can during storage.

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