

TEKNODUR COMBI 3440-05

Polyurethane paint

TEKNODUR COMBI 3440-05 is a two-component anticorrosive pigmented polyurethane paint with low solvent content where the hardener used is an aliphatic isocyanate resin. Used as a one-layer paint on aluminium and anodized aluminium.



The paint produces a film with good mechanical and weather resistance. The product must be dried at about +60°C for 1 hour as the adhesion and mechanical properties will be improved.



TECHNICAL DATA

Recommended substrate	Aluminium	Aluminium		
Solids	Approx. 62% by volume			
Total mass of solids	Approx. 1443 g/l			
Volatile organic compound (VOC)	Approx. 339 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/I)	
	40	65	15	
	80	129	7.7	
	100	162	6.2	
	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.			
Tinting system	Teknotint			
Gloss (60°)	Semi-gloss			
Hardener	Comp. B: TEKNODUR HARDENER 7230			
Mixing ratio (A:B)	6:1 parts by volume			
Pot life, +23°C	60min			

TEKNODUR COMBI 3440-05



Thinner Do not use universal thinners, as they might be incompatible with the painting

system.

Fast thinner: TEKNOSOLV 7140-00. Standard thinner: TEKNOSOLV 6220-00. Slow thinner: TEKNOSOLV 6190-00.

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. Use opened hardener

within two weeks.

DIRECTION FOR USE

Surface preparationRemove 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:

ALUMINIUM SURFACES: Treat the surfaces with suitable Cleaning Agent.
Surfaces that are exposed to weathering are also roughened up with sweep

blast-cleaning (AISaS) or sanding.

ANODIZED ALUMINIUM SURFACES: It is important that anodizing is done according to valid standards. It is recommended that Teknos' laboratory has tested and approved the quality of the anodizing before use of TEKNODUR

3440. Clean the surfaces with TEKNOSOLV 6560.

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 Conventional spraying, Air-assisted airless spraying, Airless spraying

TEKNODUR COMBI 3440-05

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.

Before use clean the spray gun and paint vessels with a thinner suitable for the paint.

Equipment	Suggested viscosity DIN-cup 4 mm +20°C	
Conventional spraying	18-20 s	
Air-assisted airless sparying	20-30 s	
Airless spraying (nozzle: 0.009"-0.013")	20-30 s	

Application conditions

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.

Drying time		
- dust free		
- touch dry		
Overcoatable		

+23°C / 50% RH (dry film 80 μm) 30 minutes (ISO 1517:1973) 5 hours (DIN 53150:1995)

Surface temperature	by itself		
	min.	max.	
+5°C	20 hours	2 days	
+23°C	4 hours	24 hours	
+60°C	1 hour	24 hours	

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 6220-00

HEALTH AND SAFETY

Safety and precaution measures

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.

See safety data sheet.



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