

TEKNODUR COMBI 3560-09

Ultra high solids polyaspartic coating

TEKNODUR COMBI 3560-09 is a two pack polyaspartic based polyurethane paint. The hardener is an aliphatic isocyanate resin.



TEKNODUR COMBI 3560-09 is an anticorrosion pigmented paint suitable to use as a one-layer paint on metal surfaces. The coating provides a highly durable finish with good resistance against weathering.

The use of TEKNODUR 0290 polyurethane Varnish is recommended on objects when the topcoat is required to have excellent gloss and colour retention.

TECHNICAL DATA

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Recommended substrate	Steel, Aluminium, Zinc				
Binder	Polyurethane	Polyurethane			
Solids	TEKNODUR HARDENER 72	TEKNODUR HARDENER 7226 93 ±2% by volume			
	TEKNODUR HARDENER 72	TEKNODUR HARDENER 7227 87 ±2% by volume			
Total mass of solids	TEKNODUR HARDENER 72	TEKNODUR HARDENER 7226 approx. 1600 g/l			
	TEKNODUR HARDENER 72				
Volatile organic compound (VOC)	TEKNODUR HARDENER 72	226 approx. 70 g/l			
	TEKNODUR HARDENER 72	227 approx. 120 g/l			
	The VOC value provided is	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	Down Silms (com)	Wet film (µm)	Theoretical spreading rate		
	Dry film (μm)		(m²/l)		
	TEKNODUR HARDENER 7226				
		0.0	11.0		
	80	86	11.6		
	80 120	129	7.8		
			-		
	120 200	129	7.8 4.6		
	120 200	129 215	7.8 4.6		
	120 200	129 215 TEKNODUR HARDENER 722	7.8 4.6 7		
	120 200 80	129 215 TEKNODUR HARDENER 722 92	7.8 4.6 7 10.9		
	120 200 80 120	129 215 TEKNODUR HARDENER 722 92 138 230	7.8 4.6 7 10.9 7.3 4.4		
	120 200 80 120 200	129 215 TEKNODUR HARDENER 722 92 138 230 perties will change if too the	7.8 4.6 7 10.9 7.3 4.4 nick coats are applied, it is		
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Practical spreading rate	120 200 80 120 200 As many of the paint's proportion of recommended that the	129 215 TEKNODUR HARDENER 722 92 138 230 Derties will change if too the product is applied to a film recommended film.	7.8 4.6 7 10.9 7.3 4.4 nick coats are applied, it is m thickness that is more		
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Tinting system	Teknotint		
Gloss (60°)	Gloss		
Hardener	Comp. B: TEKNODUR HARDENER 7226 or TEKNODUR HARDENER 7227		
Mixing ratio (A:B)	Comp. B	Parts by volume (A : B)	
	TEKNODUR HARDENER 7226	3:1	
	TEKNODUR HARDENER 7227	2.4 : 1	
Pot life	TEKNODUR HARDENER 7226 1 h		
	TEKNODUR HARDENER 7227 1 h		
Storage	The storage stability is shown on the label. Store indoors in a cool and dry place		

The storage stability is shown on the label. Store indoors in a cool and dry place and in a tightly closed can. The product is moisture-accelerated, therefore unnecessary opening of the Comp. A can might lead to shortened pot life.

The hardener reacts with air humidity and therefore the opened can is to be kept carefully closed, and it is recommended to be used within 14 d of opening.



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). The profile of the blast-cleaned surface should be coarse (reference comparator "G") ISO 8503-2 (G).

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.

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: 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.

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.

Airless spraying, Conventional spraying Suitable airless nozzle size 0.013 - 0.017"

Application method



Application

MIXING OF THE COMPONENTS: Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. The base must be stirred until it is homogeneous before mixing the components. Before application the base and hardener are mixed in right proportion. Stir thoroughly down to the bottom of the vessel. The stirring time is at least 5 min. 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.

Application conditions

The surface to be treated must be dry and the relative air humidity below 80%. During the application and drying period the temperature of the ambient air and the surface shall be at least above -5°C, and the temperature of the product above +15°C during mixing and spraying. 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.

Curing of the product is moisture-accelerated. For efficient curing, adequate moisture level is needed. To enable efficient solvent evaporation, good airflow over the painted surface is recommended during flash off and drying.

Oven-curing (above +35°C) is not recommended. For further information, please contact Teknos representatives.

Thinning

Thin the paint (max. 5 vol-%) when needed with TEKNOSOLV 9526.

Other thinners: TEKNOSOLV 1129 (fast thinner) or TEKNOSOLV 6622 (slow thinner).

Do not use universal thinners, since they may contain alcohol which will react with the hardener.

Drying time

+23°C / 50% RH (dry film 120 μ m)

dust freetouch dry

40 min (ISO 9117-3:2010)

- through dry

2,5 h (ISO 9117-5:2012) 4 h (ISO 9117-1:2009)

Overcoatable

surface temperature	by itself		
	min.	max.	
+5°C	12 h	24 h	
+23°C	5 h	8 h	



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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