

TEKNOS

TEKNODUR 295-900

High solids polyurethane clear coat

TEKNODUR 295-900 is a two pack, ready to use polyurethane clear coat.

TEKNODUR 295-900 is a high end full gloss clear coat providing excellent UV resistance, improving the gloss and color retention of TEKNODUR Polyurethane Coating Systems. The coating gives a high quality finish with excellent mechanical durability and elasticity to ensure a long-lasting finish.

TEKNODUR 295-900 is an optimal solution for surfaces that are subjected to heavy stresses, yet still requiring a long-lasting finish. Main field of applications are within commercial and rail vehicle manufacturing as well as any other industry desiring a high end full gloss finish.

TEKNODUR 295-900 has good chemical resistance, withstanding washing and cleaning chemicals commonly used on e.g. railroad and transportation equipment.

Metal

Machinery, Transportation equipment

TECHNICAL DATA

Fields of application

Recommended substrate

Binder	Polyurethane	Polyurethane		
Solids	50 ±2% by volume	50 ±2% by volume		
Total mass of solids	Approx. 565 g/l	Approx. 565 g/l		
Volatile organic compound (VOC)	Approx. 435 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)	
	40	80	12.5	
	60	120	8.3	
	NB! The recommended maximum dry film thickness is 70 µm.			
Practical spreading rate	The values depend on the application technique, surface conditions, overspray,			
	etc.			
Colours	Clear.	Clear.		
Gloss (60°)	Full gloss	Full gloss		
Hardener	Comp. B: TEKNODUR HARD	Comp. B: TEKNODUR HARDENER 7295		
Mixing ratio (A:B)	4:1 parts by volume	4:1 parts by volume		
Pot life, +23°C	1,5 h	1,5 h		



Thinner	The product is delivered ready for use. Suitable thinners and application viscosities see Application.
Storage	The storage stability is shown on the label. Store indoors in a cool and dry place and in a tightly closed can. 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

Remove from the surfaces any contaminants that might be detriment surface preparation and application. Remove also water-soluble salts appropriate methods. The surfaces are prepared according to the different materials as follows: OLD PAINTED SURFACES SUITABLE FOR OVERCOATING: Any impuriting might be detrimental to the application of paint (e.g. grease and salts removed. The surfaces must be dry and clean. Old, painted surfaces the exceeded the maximum overcoating time are to be roughened as we parts are prepared in accordance with the requirements of the substitute maintenance coating.
might be detrimental to the application of paint (e.g. grease and salts removed. The surfaces must be dry and clean. Old, painted surfaces texceeded the maximum overcoating time are to be roughened as we parts are prepared in accordance with the requirements of the substitutions.
The place and time of the preparation are to be chosen so that the preparation are t
Additional instructive information for surface preparation can be four standards EN ISO 12944-4 and ISO 8501-2.

Application method

Air-assisted airless spraying, Conventional spraying



Application

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. 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.

Suitable air-assisted airless nozzle size 0.009 - 0.012". Suitable conventional spray nozzle size 1.2 - 1.4 mm. The recommended application viscosity is 16 - 22 s DIN 4.

Dilute the clear coat 0 - 5%, when required. Dilution of 10 - 15% may be required when applying lower dry film thicknesses. With 5 - 15% dilution, application of the clear coat in 1.5 - 2 layers (wet-on-wet) is possible.

Suitable thinners:

Fast thinner: TEKNOSOLV 9526. Used when spray painting large surfaces with mist coating technique.

Slow thinner: TEKNOSOLV 9521. Used e.g. when painting large surfaces and when the temperature is above room temperature.

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

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.

Drying time

- dust free

- touch dry

Overcoatable

+23°C / 50% RH (dry film 40 μm)

1.5 h (ISO 9117-3:2010)

7 h (ISO 9117-5:2012)

surface temperature	by itself		
	min.	max.	
+5°C	20 h	30 d	
+23°C	12 h	14 d	

Increase in film thickness and rise in the relative humidity of the air in the drying space usually slow down the drying process.

Cleaning

TEKNOCLEAN 6496



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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The above information is normative and based on laboratory tests and practical experiences. The information is noncommittal, and we cannot accept liability for the results obtained under working conditions beyond our control, and consequently the buyer or the user is not released from the obligation to test the suitability of our products for specific means and application methods under the actual application conditions. Our liability covers only damage caused directly by defects in the products supplied by Teknos. This product is intended for professional use only. This implies that the user possesses sufficient knowledge for using the product correctly with regard to technical and working safety aspects. The latest versions of Teknos' Technical Data Sheets and Safety Data Sheets are available from our homepage www.teknos.com. All trademarks displayed on this document are the exclusive property of Teknos Group or its affiliated companies.