

TEKNODUR 295-900 (TEKNODUR 295 9-00) clear coat

PAINT TYPE	TEKNODUR 295-900 is a two-component polyurethane clear coat. The hardener is an aliphatic isocyanate resin.
USAGE	Used as top coat in TEKNODUR Polyurethane Coating Systems on steel and metal. Especially suited for painting vehicles and other transportation equipment.
SPECIAL PROPERTIES	TEKNODUR 295-900 produces a high gloss, UV-resistant film with good mechanical and weather resistance. TEKNODUR 295-900 has also good chemical resistance. It withstands washing and cleaning chemicals, which are generally used to clean railroad and transportation equipment.

TECHNICAL DATA

Mixing ratio	Base (Comp. A): Hardener (Comp B): TEKNODUR HARDENER 7295	4 parts by volume 1 part by volume
Pot life, +23 °C	1½ h	
Solids	50 ±2% by volume	
Total mass of solids	abt. 565 g/l	
Volatile organic compound (VOC)	abt. 435 g/l	
Recommended film thickness and 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.

Drying time at +23°C / 50% RH (dry film 40 µm)

- dust free (ISO 9117-3:2010) after 1.5 h
- touch dry (ISO 9117-5:2012) after 7 h

Overcoatable, 50% RH (dry film 40 µm)

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

Thinner	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.
Clean up	TEKNOCLEAN 6496
Finish	Full gloss
Colours	clear coat
SAFETY MARKINGS	See Safety Data Sheet.

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DIRECTION FOR USE**Surface preparation**

Remove from the surfaces any contaminants that might be detrimental to surface preparation and painting. Remove also water-soluble salts by using appropriate methods. The surfaces are prepared according to the different materials as follows:

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.

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 painting 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.

Application conditions

The surface to be painted has to be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +5°C and the relative air humidity below 80%. Additionally the temperature of the surface to be painted and the paint must be at least 3°C above the dew point of the ambient air.

Application

Before use stir the paint thoroughly.

Apply by air-assisted airless spray or conventional spray. Suitable air-assisted airless nozzle size 0.009 - 0.012". Suitable conventional spray nozzle size 1.2 - 1.4 mm.

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

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. Universal diluents or thinners cannot be used, since they may contain alcohol that will react with the hardener.

The hardener of the paint and the ready paint 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.

ADDITIONAL INFORMATION

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.

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

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. 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 data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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