

TEKNODUR 0210

Camouflage clear varnish

TEKNODUR 0210 camouflage clear varnish is a two-pack polyurethane varnish. The hardener is an aliphatic isocyanate resin.



Used as a finishing clear varnish on steel and metal surfaces in INERTA 70 camouflage painting systems K110B, K111B and K113B. It is suitable to use specially on cars and other transport equipment. TEKNODUR 0210 camouflage clear varnish forms a full-matt film that has good resistance to ultraviolet radiation and mechanical abrasion.

TECHNICAL DATA

Certificates, approvals and classification	Finnish Defence Force		
Recommended substrate	Steel		
Binder	Polyurethane		
Solids	45 ±2% by volume		
Total mass of solids	Approx. 490 g/l		
Volatile organic compound (VOC)	Approx. 530 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/l)
	20 - 25	44 - 55	22.5 - 18.0
	The recommended film thickness 25 µm should not be exceeded, because it might change the gloss grade and cause lightness into the film of the varnish.		
Practical spreading rate	The values depend on the application technique, surface conditions, overspray, etc.		
Colours	Clear.		
Gloss (60°)	Full-matt: below 1/60° below 3/85°		
Hardener	Comp. B: TEKNODUR HARDENER 0200 STA		
Mixing ratio (A:B)	4:1 parts by volume		
Pot life, +23 °C	6 h		
Thinner	Standard thinner: TEKNOSOLV 9526. Other thinners suitable for the product: see Thinning.		

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**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.

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

Application method

Conventional spraying

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. Conventional spray and mixing vessels are to be cleaned before use with a thinner suitable for the varnish.

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.

Thinning

Thin the varnish for conventional spray application to viscosity 15 - 20 s DIN 4.

Standard thinner: TEKNOSOLV 9526.

Slow thinner: TEKNOSOLV 6291. Used e.g. when varnishing large surfaces and when the temperature is above room temperature.

Fast thinner: TEKNOSOLV 9529. Used when spray varnishing large surfaces with mist coating technique.

Drying time

+23 °C / 50% RH (dry film 25 µm)

- dust free

1 h (ISO 9117-3:2010)

- touch dry

6 h (ISO 9117-5:2012)

Overcoatable

Surface temperature	by itself	
	min.	max.
+5 °C	20 h	-
+23 °C	12 h	-

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.

Teknos Group Oy Takkatie 3, P.O.Box 107 FI-00371 Helsinki, Finland Tel. +358 9 506 091

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.