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DATA SHEET 1541
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TEKNODUR 0210
camouflage clear varnish

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

USAGE
Used as a finishing clear varnish on steel and metal surfaces in INERTA 70 camouflage painting systems. It is suitable to use specially on cars and other transport equipment.

SPECIAL PROPERTIES
TEKNODUR 0210 camouflage clear varnish forms a full-flat film that has good resistance to ultraviolet radiation and mechanical abrasion

TECHNICAL DATA

Mixing ratio
Base (Comp. A): 4 parts by volume
Hardener (Comp B): TEKNODUR HARDENER 0200 STA 1 part by volume

Pot life, +23 °C
6 h

Solids
45 ±2% by volume

Total mass of solids
abt. 490 g/l

Volatile organic compound (VOC)
abt. 530 g/l

Recommended film thickness and 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.

Drying time, +23°C / 50% RH (dry film 25 µm)
- **dust free (ISO 9117-3:2010)** after 1 h
- **touch dry (ISO 9117-5:2012)** after 6 h

Overcoatable, 50% RH (dry film 25 µm)

	by itself	
surface temperature	min.	max.
+5°C	after 20 h	-
+23°C	after 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.

Thinner
Standard thinner: TEKNOSOLV 9526.
Other thinners suitable for the product: see page 2.

Clean up
TEKNOCLEAN 6496

Finish
Full-matt:
under 1/60°
under 3/85°

Colours
Clear varnish

SAFETY MARKINGS
See Safety Data Sheet.

PTO

DIRECTION FOR USE

Surface preparation

Remove from the surfaces any contaminants that might be detrimental to surface preparation and application of the varnish, and 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.

Mixing of the components

Take into consideration the pot life of the mixture when estimating the amount to be mixed at a time. 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

During the varnishing and drying period the temperature of the ambient air, the surface and the varnish shall be above +5 °C and the relative air humidity below 80 %.
Additionally the temperature of the surface to be varnished and the varnish must be at least 3°C above the dew point of the ambient air.

Varnishing

Stir the varnish thoroughly before use.

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

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

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.

The hardener of the varnish and the ready varnish 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.

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