

TEKNODUR 3830-04

Reaction drying polyurethane

Two-component reaction drying polyurethane. IR reflective topcoat.
Topcoat for metal and synthetics. IR reflective mist coat for military vehicles and equipment. Topcoat for corrosion class 2, 3 and 4a epoxy polyurethane systems referring to FS 8010-0052.

Gives a mat, full, hard, and scratch-resistant surface. Resistant to weak acids, bases, oil, petrol, white spirit, propylene glycol and calcium hypochlorite. Excellent weather resistance. Yellowing-, chalking- and gloss resistant. For internal use if an abrasion resistant and robust surface is required.

The product quality is also available as NON-IR reflective paint for e.g., pattern and marking use and cover paint for military vehicles (TEKNODUR 3830-00, colours and gloss levels according to FS 8010-0125 and FS 8010-1635).



TECHNICAL DATA

Recommended substrate	Aluminium, Steel, Zinc, Plastic		
Solids	Approx. 42% by volume		
Volatile organic compound (VOC)	Approx. 505 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)
	40	80	13-14
Colours	MGK-93 dark green. Note! The spectral graph is approved on steel applied 40 µm primer in the colour oxide red TS 0482.		
Gloss (60°)	Matt		
Hardener	Comp. B: TEKNODUR HARDENER 7310-00		
Mixing ratio (A:B)	4,5:1 parts by volume		
Pot life, +23 °C	6h		
Thinner	TEKNOSOLV 6220-00, TEKNOSOLV 6190-00.		
Storage	The storage stability is shown on the label. Store in a tightly closed container.		

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.
Exceeding of the max. re-coating interval requires grinding before re-coating of primed and coated surfaces. The surface must be free from dirt.

Priming

Max. adhesion and protection against corrosion is achieved by using one of the following primers:
STEEL, ALUMINIUM: TEKNODUR PRIMER 3420-00 (polyurethane) or INERTA PRIMER 3210-01 (epoxy).
ZINC: INERTA PRIMER 3210-01 (epoxy).

Application method

Airless spraying, Air-assisted airless spraying, Conventional spraying, Brush, Roller

Application

MIXING OF THE COMPONENTS:
To achieve a satisfactory result, it is important that the hardener is mixed correctly. Inadequate stirring or incorrect mixing ratio results in imperfect curing and impaired film properties. 15 minutes after the addition of hardener the viscosity increases. Final adjustment of the spraying viscosity must be made after this time period.

Equipment	Thinner	Suggested viscosity DIN-cup 4 mm +20°C
Brush/roller	TEKNOSOLV 6190-00	Delivery viscosity
Conventional spraying	TEKNOSOLV 6220-00	18-25 s
Air-assisted airless spraying	TEKNOSOLV 6220-00	20-30 s
Airless spraying (nozzle: 0.009"-0.013")	TEKNOSOLV 6220-00	25-40 s

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 +10°C and the relative air humidity below 80%.
Adhesion and compatibility to plastic types should be tested before application as variation may occur, dependent upon the type of plastic.

Drying time

- dust free
- touch dry
- through dry
- forced drying

+23°C / 50% RH
Approx. 1 h (ISO 1517)
Approx. 4 h (ISO 3678)
7 days
+80°C / 50% RH:
- through dry: 30 min.

Overcoatable

Surface temperature	by itself	
	min.	max.
+23°C	3 h	1 week

Cleaning

TEKNOSOLV 6220-00

HEALTH AND SAFETY

Safety and precaution measures

See safety data sheet.

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