

TEKNODUR AQUA 3394-03

Polyurethane varnish

TEKNODUR AQUA 3394-03 is a water-borne two-component polyurethane varnish where the hardener used is an aliphatic isocyanate resin.



The product is used as a varnish on TEKNODUR AQUA 3393 topcoats where excellent gloss and colour retention is required.







TECHNICAL DATA

Fields of application	Exterior doors, Windows		
Recommended substrate	Composite material, Plastic		
Solids	28-31% by volume depending on the colour.		
Volatile organic compound (VOC)	Approx. 32 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	115	8.9
	As many of the paint's properties will change if too thick coats are applied, it is not recommended that the product is applied to a film thickness that is more than double of the thickest recommended film.		
Practical spreading rate	The values depend on the application technique, surface conditions, overspray, etc.		
Colours	Clear.		
Gloss (60°)	25-30		
Hardener	Comp. B: HARDENER 7323-03		
Mixing ratio (A:B)	9:1 parts by volume		
Pot life, +23°C	3h		
Thinner	Water. The components are not to be thinned separately.		
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	t is recommended to be use	ed 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. 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.
	Additional instructive information for surface preparation can be found in standards EN ISO 12944-4 and ISO 8501-2.
Application method	Airless spraying, Conventional spraying Nozzle size 0.011 - 0.013". Conventional spray gives the best result.
Application	MIXING OF THE COMPONENTS: Clear varnishes with special effects must be stirred thoroughly before mixing with hardener. The base and hardener are mixed together and stirred mechanically thoroughly before application down to the bottom of the vessel. The hardener is mixed undivided and in one go into the base. The stirring time is at least 5 min. Inadequate stirring or incorrect mixing ratio results in imperfect curing and
	impaired film properties. THE READY MIXTURE MUST BE USED WITHIN THE POT LIFE, MIXTURES OLDER THAN THIS ARE UNFIT FOR USE.
Application conditions	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

Especially when applying with a spray the relative air humidity should be above 30% to avoid the onset of the drying process to be too fast.

below 70%. 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.

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Drying time	+23°C / 50% RH (dry film 40 μm)
- dust free	30 minutes (ISO 1517:1973)
- touch dry	2 hours (DIN 53150:1995)
	Surface temperature, film thickness, drying temperature and ventilation affect the drying of the paint. The paint is dry when all water has evaporated from the paint film. It is essential that all painted surfaces have sufficient ventilation.
	Low temperatures and insufficient ventilation slow down the drying process.
	If the painted surface will be exposed to weathering, moisture or low

Overcoatable

Surface temperature	by itself		
	min.	max.*	
+10°C	6 h	14 days	
+23°C	1 h	14 days	

temperatures (below +10°C) thick paint films are to be avoided and the last coat

must be allowed to dry for at least 24 hours (at +23°C) before exposure.

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

Cleaning

When painting equipment used for application of solvent-borne paints is used for water-borne paints the equipment must be cleaned carefully:

- 1. Wash with solvent.
- 2. Wash with washing solvent for water-borne paints, e.g. TEKNOSOLV 6060-00.
- 3. Rinse with water.

When shifting from water-borne to solvent-borne paints act in reverse order.

Water, TEKNOSOLV 7030-00.

HEALTH AND SAFETY

Safety and precaution measures

The hardener can must be opened with caution, as pressure may develop in the can during storage.

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. See safety data sheet.

^{*} Maximum overcoating interval without roughening.



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