

TEKNODUR AQUA PRIMER 1121-00

Polyurethane paint

TEKNODUR AQUA PRIMER 1121-00 is a water-borne, two pack polyurethane paint. The hardener is an aliphatic isocyanate resin.



The paint is used as a primer on composite, HDF and wooden surfaces in water-borne coating systems of wood industry. The paint will adhere well onto several composite surfaces. The paint will form an even and easy to sand surface.

Due to many different types of composites and plastics it is best to contact the manufacturer to make sure of the adhesion onto the substrate in question. The hardener is an aliphatic isocyanate resin.

TECHNICAL DATA

Fields of application	Exterior doors, Windows		
Recommended substrate	Composite material, HDF, Softwood		
Solids	38 ±2% by volume		
Total mass of solids	Approx. 850 g/l		
Volatile organic compound (VOC)	Approx. 100 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	105	9.5
	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	By agreement.		
Gloss (60°)	Semi-matt		
Hardener	Comp. B: TEKNODUR AQUA HARDENER 7313		
Mixing ratio (A:B)	10:1 parts by volume		
Pot life, +23 °C	3 h		
Thinner	Water or TEKNOSOLV 1936.		

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.

Must not freeze.

DIRECTION FOR USE

Surface preparation

Composite surfaces are roughened or washed with emulsifying washing agent and rinsed with clean water.

Make sure before application that the possible release agents have been removed from the composite surface.

It is best to check with the manufacturer to make sure of the suitability of the surface preparation methods (corona treatment, flaming).

Wooden and HDF/MDF surfaces are roughened, if needed.

Application method

Airless spraying, Conventional spraying

Conventional spray gives the best result.

Application

MIXING OF THE COMPONENTS:

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

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 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.

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. If the painted surface will be exposed to weathering, moisture or low 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.

Low temperatures and insufficient ventilation slow down the drying process.

As the static electricity on synthetic surfaces causes problems it is recommended not to paint when the relative humidity of the air is below 40% during the time of application.

TEKNODUR AQUA PRIMER 1121-00 is easy to sand after drying.

Thinning

The components are not to be thinned separately.

Drying time

+23 °C / 50% RH (dry film 40 µm)

- dust free

1 h (ISO 9117-3:2010)

- touch dry

2 h (ISO 9117-5:2012)

- forced drying

+60 °C / 30 min

Overcoatable

surface temperature	by itself or with topcoat	
	min.	max.*
+10°C	1 d	14 d
+23°C	3 h	14 d

* Maximum overcoating interval without roughening.

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

Cleaning

Water, TEKNOSOLV 6060, TEKNOSOLV 9521.

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.
3. Rinse with water.

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

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.

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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.