

TEKNODUR AQUA PRIMER 1121

Polyurethane Paint

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

USAGE 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.

TECHNICAL DATA

Mixing ratio	Base (Comp. A): Hardener (Comp B): TEKNODUR AQUA HARDENER 7313	10 parts by volume 1 part by volume
Pot life, +23 °C	3 h	
Solids	38 ±2% by volume	
Total mass of solids	abt. 810 g/l	
Volatile organic compound (VOC)	abt. 100 g/l	
Recommended film thickness and 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.

Drying time at +23°C / 50% RH (dry film 40 µm)

- dust free (ISO 9117-3:2010)	after 1 h
- touch dry (ISO 9117-5:2012)	after 2 h
- drying in elevated temperature, +60 °C	after 30 min

Overcoatable, 50% RH (dry film 40 µm)

surface temperature	by itself or with AQUATOP 2600	
	min.	max.*
+10°C	after 1 d	after 14 d
+23°C	after 3 h	after 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.

Thinner Water or TEKNOSOLV 1936

Clean up Water, TEKNOSOLV 6060, TEKNOSOLV 9521

Finish Semi-matt

Colours By agreement.

SAFETY MARKINGS See Safety Data Sheet.

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.

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 minutes. Inadequate stirring results in imperfect curing and impaired film properties. Ready paint is to be used within 3 h from mixing. After this the mixture is unfit for use.

Application

For the application it is recommended to use airless spray or conventional spray. Conventional spray gives the best result. The components are not to be thinned separately.

The hardener of the paint and the ready paint 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.

Application conditions and drying

The surface to be painted must be dry. During the application and drying period the temperature of the ambient air, the surface and the paint shall be above +10°C and the relative air humidity below 70%. Additionally the temperature of the surface to be painted and the paint 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 is easy to sand after drying.

Cleaning of the equipment

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.

ADDITIONAL INFORMATION

The storage stability is shown on the label. The hardener reacts with air humidity. Store in a cool and dry place in a tightly closed can.

MUST NOT FREEZE.

The information of this data sheet is normative and based on laboratory tests and practical experience. Teknos guarantees that the product quality conforms to our quality system. Teknos accepts, however, no liability for the actual application work, as this is to a great extent dependent on the conditions during handling and application. Teknos accepts no liability for any damage resulting from misapplication of the product. 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 data sheets, material safety data sheets and system sheets are on our home pages www.teknos.com.



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