

Technical Data Sheet

AZ97XX/XX HYDROPLUS CLEAR THIXOTROPIC WATERBORNE TOPCOAT FOR EXTERIORS

Supersedes previous issue dated 10/12/09

DATE 05/09/12

Versions and colors:	85 Larch, 30 and 60 gloss 92 Walnut, 30 gloss 00 Clear, 60 gloss
Area of use:	door and window frames and any other wooden item exposed outdoors
Method of use:	spray (conventional, airmix, airless and electrostatic, provided that the equipment used is suitable for waterborne products)
Mixing procedure:	ready to use; if thinning is required, use max 3% of drinking water

Technical characteristics

Solids content (%):	36 ± 1
Specific gravity (kg/l):	1.030 ± 0.030

General characteristics

Drying time (200 µm at 20°C):	touch dry:	4 hours
	through dry:	8 hours
	stackable:	24 hours
	sandable:	24 hours
	overcoatable:	24 hours
Forced air drying (200 µm at 30°C):	through dry:	150-180' min.
	stackable:	on oven exit
	sandable:	16 hours
	overcoatable:	16 hours
Application weight per coat (µm wet)	from 150 to 300	
Number of coats:	2 max.	
Interval between coats:	24 hours	
Spreading rate (m²/kg):	from 2 to 4 depending on application system	
Shelf-life (months):	15	

N.B.: DATA PROVIDED ON THIS TECHNICAL DATA SHEET CORRESPOND TO OUR BEST KNOWLEDGE AND EXPERIENCE. WE ASSURE CONSISTENCY ON THE CHEMICAL-PHYSICAL CHARACTERISTICS OF OUR PRODUCTS, WITHIN THE TOLERANCE LIMITS SPECIFIED ON OUR TECHNICAL DATA SHEETS. RESPONSIBILITY OF FINAL RESULT OF PRODUCT APPLICATION IS FULLY UP TO THE USERS, WHO SHALL MAKE SURE THAT THE PRODUCT CORRESPONDS TO THEIR OWN NEEDS WITH REGARD TO APPLICATION SYSTEM, TO SUBSTRATES USED AS WELL AS TO WORKING CONDITIONS.

WARNING: ACTUAL VISCOSITY OF SOME PIGMENTED AND/OR THIXOTROPIC PRODUCTS MAY DIFFER FROM THE VISCOSITY SHOWN ON THE TECHNICAL DATA SHEET. DIFFERENCES ARE TO BE REGARDED AS ACCEPTABLE IF WITHIN 30% MAXIMUM.

AZ97XX/XX is a 1-pack waterborne topcoat with excellent elasticity and durability which makes it ideal for protecting external wooden joinery.

In addition, it exhibits excellent wettability and ease of application.

It can be pigmented with XA4034/XX pastes.

AZ97XX/XX has the following special features:

- Versatility of application: the product has good thixotropy, which makes it suitable for both horizontal and vertical application, as well as for industrial and professional application.
- Protection from UV radiation: it is not subject to any kind of degradation due to UV radiation, but protects the substrate thanks to the presence of special UV absorbers.
- Fast drying
- Not subject to spontaneous combustion
- Not subject to lifting, even when overcoated at short intervals.

Preparation of the substrate

AZ97XX/XX is to be applied on wood previously treated with Hydroplus preservative wood stains. When desired, it is possible to apply one coat of washcoat by flow-coating or one coat of basecoat by spray.

Application system

By spray (conventional, airmix, airless or electrostatic) either horizontally or vertically.

AZ97XX/XX can be thinned with drinking water up to 3% max. Application weight is the following:

- in 1-coat systems: apply one coat at 275-300 µm wet
- in 2-coat systems: apply the second coat after 24 hours and after sanding. Sanding between the two coats may be avoided provided that interval between coats is no longer than 3 hours. In this case, both coats should be at 150 µm wet.

Application devices

- conventional spray guns: 2.2–2.5 mm nozzle, pressure 3–4 bars.
- airmix spray guns: 9–11 nozzle, material pressure 80–110 bars, air pressure 1–2 bars.
- airless spray guns: 11–13 nozzle, material pressure 150–200 bars.

The use of a pre-atomizer and/or of a pre-heater (30-35°C) has proven to give excellent results in terms of flow and high quality consistency.

Application devices should be washed with water immediately after use. Cleaning of dry films of coating from the equipment can be done using XA4060/00, leaving in contact for 6–12 hours, then rinse with water.

Drying

Waterborne products should be dried in rooms at temperatures no lower than 15°C and with a relative humidity no greater than 85%. For accelerated drying it is advisable to use a forced flow of dry air initially at room temperature and subsequently warm air at 28-30°C.

COMPANY WITH
MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
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General instructions

- Store the product in rooms with temperature between 5°C and 35°C.
- During hot weather or in tropical areas, from 3 to 6% of XA4026/00 drying regulator can be added once to improve wetting and reduce drying speed.
- If the recovered coating is expected to be used after 5-10 days, it is advisable to add to the whole quantity 2-4% of XA4017/00 modifier in order to avoid thickening, poor adhesion and decay.
- During application, keep the product, the substrate and the room at a temperature of at least 15°C. Films created at temperature below 15°C may exhibit chemical and mechanical resistance properties below the commonly achieved standards.
- Coating residues (washing water, booth water, used coating) must be disposed of in accordance with current legislation. Do not pour residues down drains.

WARNING: NATURAL RESIN ESCAPE.

Many timber species, especially softwood such as pine, larch, Douglas fir and spruce, contain large quantities of natural resin in capillaries and resin sacs near knots. It is virtually impossible either to eliminate this resin by drying out the wood or to use coatings to block it. Sooner or later the heat of the sun will cause the resin to escape. Nonetheless, the only real damage is to the aesthetic appearance of the material and the quality of the film is not affected.

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