

TECHNICAL DATA SHEET

supersedes previous issue (AZ57**/XX) dated 11/07/01

AZ 57/00**
HYDROPLUS WATERBORNE TOPCOAT FOR INTERIORS

Versions:	Clear 10, 20, 30, 50, 80 gloss
Area of use:	Flat parts, turned parts, picture frames, furniture, skirting board, matchboards, doors.
Method of use:	Spray (conventional, airmix, airless and electrostatic, provided equipment suitable for waterborne products is used).
Thinning:	Ready to use. If thinning is required, use 5-10% drinking water.

Technical characteristics

Solids content (%):	AZ 57**/00:	35 ± 2
	AZ 5780/00:	32 ± 1
Specific gravity (kg/l):	AZ 57**/00:	1.03 ± 0.030
Viscosity:	AZ 57**/00:	45" ± 5 (DIN 4 at 20°C)
	AZ 5780/00:	20" ± 3" (DIN 8 at 20°C)

General characteristics

Drying time(120 g/m ² at 20°C):	Dust free:	30 min.
	Touch dry:	70 min.
	Stackable:	24 hours
Application weight (g/m ²):	from 80 to 140	
Spreading capacity (m ² /kg):	from 7 to 12	
Number of coats:	1	
Shelf-life (months):	15	

AZ 57**/00 is a one-pack waterborne topcoat suitable for coating wooden products for indoor use which ensures good hardness and good chemical resistance.

It is formulated with non-yellowing acrylic and polyurethane resins enabling this topcoat not to alter its colour and (in the clear version) the wood colour.

In addition to its good sagging resistance, AZ 57**/00 ensures an exceptionally even matting and smoothness.

Substrate preparation

With one or more coats of Hydroplus waterbased basecoat or polyester basecoat properly dried and sanded.

Chemical resistance and cross-linker

Chemical resistance test results carried out on AZ 57**/00 topcoat alone, i.e. with no additives, fully comply Level 1B of DIN 68861 Part 1.

However, to obtain even better chemical resistance, add 0.5-1% cross-linker XA 4080 slowly while stirring.

The use of XA 4080 is particularly recommended with AZ 5780 in order to increase surface hardness and scratch resistance.

Use on toys

AZ 57**/00 is free from heavy metals and therefore is suitable for the use on toys. It complies with the requirements stated by the European Rule EN 71-2 on toys safety. Since also pigmented pastes for waterbased products XA 4011/XX comply with this rule, it is possible to obtain any colour in compliance with EN 71-2. For further information, please refer to technical data sheet relating to waterborne pigmented pastes XA 4011/XX.

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Drying

Drying of waterborne products must take place at temperatures not below 15°C and at a relative humidity preferably not exceeding 85%. Out of these limits, there is a slowing down of the drying and/or formation of a less hard and resistant film. It is always advisable for drying to be forced, with air previously de-humidified and warm (20-30°C). Always let the coated items cool before stacking to avoid sticking marks.

Stacking

The natural thermoplasticity of the resins used in waterbased coatings, make them more delicate when stacked. Moreover, depending on how the coated items have dried, different results may be achieved.

A strong ventilation with moderately hot air, a low humidity rate, a correct spreading rate and the use of XA 4080 crosslinker in the topcoat may significantly reduce time and risks linked to stacking.

The following recommendations always apply:

- stack the coated items at least 24 hours after coating
- always used a proper packaging material between the panels
- when possible, stack vertically

N.B.:

On wood species, even those species commonly used for pigmented topcoat application, the basecoat may dissolve coloured substances in the wood and cause yellowing. This colour is liable to float to the surface even after the application of more than one coats of waterborne topcoat.

White basecoat must therefore be used only on MDF (but check the quality of the MDF first) or as a coloured basecoat for pigmented topcoats in colours other than white. To this purpose, waterbased pastes XA 4011/XX can be added both to AU 466/XX (see relevant technical data sheet) and to AZ 57**/00 at a maximum concentration of 12%.

General instructions

- Store the product in rooms where the temperature does not fall below 5°C. • During application, keep the product, the substrate and the room at a temperature of at least 15°C.
- Coating residues (washing water, booth water, used coating) must be disposed of in accordance with current legislation. Do not pour residues down drains.
- In view of the wide variety of materials used for manufacturing wooden products, when switching from a solvent-based to a waterborne coating system it is always advisable to contact your suppliers' technical departments to check whether your equipment and components are appropriate or whether more suitable types exist. In particular, check: electrostatic guns, pumps, seals, silicones, glues, booth treatment water products, packaging materials, fillers, sandpaper, etc.

For further information on all stages of furniture coating using waterborne products, consult our technical booklet "GENERAL GUIDELINES ON THE USE OF WATERBORNE COATINGS FOR INTERIORS".