

Technical Data Sheet

AM0309/XX HYDRO GOLD: PIGMENTED PROTECTIVE BARRIER FOR EXTERIORS

Supersedes previous issue dated 07/01/03

DATE 09/29/10

Colours:	13 white
Area of use:	Doors, window frames and wooden products exposed to the outdoor environment.
Method of use:	Flow-coating, dipping, brush, spray gun. Stir well before use. During application temperature shall be above 15°C.
Thinning:	20% with water for flow-coating applications. Ready to use for spray applications.

Technical characteristics

Solids content (%):	53 ± 1
Specific gravity (kg/l):	1.350 ± 0.050
Viscosity (DIN 4 at 20°C):	17" ± 3"

General characteristics

Drying time (50 g/m ² at 20°C):	Drying of waterborne products shall occur in rooms where temperature is never below 15°C and relative humidity is preferably not above 85% Touch-dry 120' Sandable 16 hours Overcoatable 16 hours
Forced air drying:	Drying under forced air circulation, preferably with dehumidified and warm (28-30°C) air, is always recommended. Flash off 10' Warm air 1 hour Cooling 10'
Spreading rate (m ² /kg):	10-12, according to wood species and application method.
Overcoating:	With Hydroplus pigmented products for exteriors.
Shelf-life (months):	15

AM0309/XX is a range of one-pack waterborne protective wood stains with good hiding power and formulated to provide a suitable solution for yellowing or reddening instances in white/pigmented waterborne topcoats as well as to ensure an excellent aesthetical result.

With a common waterborne protective wood stain, acid substances contained in the wood are solubilised and brought up to the surface, with subsequent film colouring that may already be seen during drying.

Coating systems based on AM0309/XX together with AM0609/XX basecoat and AZ9030/XX topcoat exhibit an unparalleled durability on outdoor exposure.

AM0309/N0 is to be pigmented with XA4099/XX waterborne pastes in a ratio of 3% to achieve the desired color shade.

AM0309/XX represents the first coat for any waterborne coating system for exteriors, to be preferred to any conventional protective wood stain.

Most recommended wood species are hemlock, meranti and white fir. It cannot block resin in the knots in red fir and pine.

Substrate preparation

Accurately clean the wood surface, which shall be well dried (12-14% humidity) and free from any spot of grease, wax or resin.

Accurate sanding is utterly important, where 150 grit paper is recommended for softwood and 180 grit paper for hardwood or finely machined timbers.

The use of scotch brite is not advisable in bare wood preparation, since it causes bluish spots.

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 drying is slower. It is always advisable for drying to be forced, with air previously de-humidified and warm (28-30°C).

Topcoat application

AM0309/XX shall be overcoated with Hydro Gold waterborne products for exteriors to achieve maximum resistance.

Shelf life of protective wood stains

Once the can has been opened, the waterborne protective stain is susceptible to the attack of bacteria, yeast and fungi commonly present in the air, which can cause rotting, as evidenced by a foul smell, increase in viscosity, surface mould and color change. This can also occur in products left for a long time in dipping or flow-coating tanks, especially in the summer. To increase the storage life of products after use, use only drinking water for thinning, clean the system frequently (preferably with disinfectant solutions) and add XA4051/00 bactericide at 0.1-0.2% and XA4017/00 modifier at 3% at regular intervals. As a disinfectant use a solution at 2% in water of XA4051/00. As to method of use, please refer to the technical data sheet of XA4051/00 and XA4017/00.

Defoamer

In case of application by flow-coating or dipping, to eliminate the foam which could form, add 0.05% of XA4024/00.

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MANAGEMENT SYSTEM
- UNI EN ISO 9001 -
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Sherwin-Williams Italy S.r.l. – con unico socio
Via del Fifico, 12 - 40065 Pianoro (BO) - Italia - C.P. 18
tel. +39 051 770 511 - fax +39 051 777 437
www.sayerlack.com
Cod. Fisc. e Reg. Impr. Bo 08866930152
P. IVA: IT 00494251200 - R.E.A. n. 313180
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Warning

- Stir well before use.
- Do not store the product at temperatures lower than 5°C and higher than 35°C.
- Coating residues must be disposed of in accordance with current legislation. Do not pour residues down drains.

WARNING: NATURAL RESIN ESCAPE.

Many timber species, especially conifers 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.

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.