

Technical Data Sheet

XA4018/00 UV ABSORBER FOR WATERBORNE PRODUCTS

Supersedes previous issue dated 09/07/10

DATE 26/03/07

Area of use:	As additive to clear interior-grade water-based coatings to absorb UV radiation and decrease yellowing of fair timber species.
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Technical characteristics:

Solids content (%):	25 ± 1
Specific gravity (kg/l):	1.030 ± 0.030
Shelf-life:	If the product is properly stored, shelf-life is unlimited. After long periods of storage, always check homogeneity and stir well before use to eliminate any possible sediment.

General characteristics

XA4018/00 absorbs all UV rays and is capable of decreasing the negative effect that they have on all timber species, i.e. reduces yellowing, chromatic alterations of fair colors as well as lignin deterioration.

XA4018/00 can be used with interior-grade clear waterborne coatings, with the exception of UV-curable. Its addition to pigmented coatings is not recommended since it leads to no benefit.

It is important to notice that XA4018/00 reduces yellowing of fair timbers but does not actually protect them on a permanent basis. Additionally, it is not capable of avoiding the yellowing of the coating film; to prevent this phenomenon, non-yellowing coatings shall be used.

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.

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Company under the direction and coordination of The Sherwin-Williams Company, USA

Dosage

XA4018/00 can be added in percentages ranging from **0.5% to 1%** of the ready-to-use blend.

Higher percentages lead to no benefit.

Warning

All UV absorbers may cause the negative phenomenon of a light yellowing of the coating film when the coated item is packed. This phenomenon may take place, even if to a limited extent, on fair timbers coated with clear coatings, light colored precomposite items, etc. and usually disappears almost completely when the coated item is exposed again to the daylight. However, before starting any mass production, we recommend also a "yellowing in the dark" test.

- Store the product in rooms with temperature between 5°C and 35°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.
- Advices provided in our technical data sheets are the result of our application experience. However, the many substrates, their pre- or post-treatments (glueing, sanding, tinting, storage conditions, etc.) as well as the application conditions may all lead to many different situations. As a result, it is always necessary to check product suitability case by case in relation to the specific conditions of use.

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