

AQUIMAX FLAMESHIELD CLEAR

HEALTH AND SAFETY DATA SHEET

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

Revised Date: 23/06/2025

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code	AFS3400
Product name	AQUIMAX FLAMESHIELD CLEAR LACQUER
Relevant identified uses of the substance or mixture and uses advised against	TWO-PACK FIRE-RETARDANT WATERBORNE CLEAR LACQUER
Name, Address, Telephone Number of the chemical manufacturer	Ultrimax Coatings Ltd Shaw Lane Industrial Estate, Ogden Road, Doncaster, DN2 4SE 01302 856666
Emergency phone number	01302 856666

Norm	Country	Class	Certifications/Approvals	Substrates
EN 13501-1	EU	B-s1,d0	Classification Report no 430005 of 23/06/2025	Wood Multilayer and MDF Veneered, Chipboard, Solid wood and all wooden supports classified in class D-s2,d0 or higher for wall and ceilings
1For all types of wood except for: Materials veneered with thermoplastic glues, wooden elements with a cellular structure or with air cavity (e.g. rattan, wicker), wooden products assembled with materials of a heterogeneous nature.				

Self Sealer Versions		Water Clear Topcoat Versions	
AFS3500	Clear	AFS3400M	Matt 10% sheen
		AFS3400S	Satin 30% sheen
		AFS3400SG	Semi gloss 50%

Recommended Use:	Wall, ceiling and coverings
Application Method	Manual roller, brush and spray airmix

Chemical-physical characteristics (23 °C):

	AFS3500	AFS3400
Solid content (%)	60±1	20±1
Specific Gravity (g/cm3)	1.200	1,040
Viscosity (sec.)	DIN6=10"	DIN 6= 18"
Pot-life	-	2 hours

DATA PROVIDED ON THIS TECHNICAL DATA SHEET CORRESPOND TO OUR BEST KNOWLEDGE AND EXPERIENCE. HOWEVER THE RESPONSIBILITY OF FINAL RESULTS OF COATING SYSTEM RESTS ENTIRELY WITH THE USERS, WHO SHALL MAKE SURE THAT THE PRODUCT IS IN COMPLIANCE WITH THE REQUIREMENT OF THE APPLICATION SYSTEM, THE SUBSTRATES USED AND THE WORKING CONDITIONS.

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General information on the application system: Drying at 20°C and UR% between 45 and 65: 150/200 g/sqm:

	Drying times
Dust free	30 minutes
Touch free	60 minutes
Overcoating	4 hours
Sandable	6 hours

APPLICATION SYSTEM in order to obtain Class B-s1,d0 of Reaction to Fire in accordance to EN 13501-1

Substrate Preparation:	Clean the surface and sand with 120-150 grit sandpaper completely removing the old coating film.
Topcoat preparation for the application	Mixing by weight Aquimax Flameshield Clear AFS3500 100% Lacquer Hardener AFS3400CAT 20%
Self sealer preparation for the application	Dilute from 1 % up to 10% with water. In any case the amount of product should be applied should be recalculated based on the dilution.
Application method	Manual roller, brush and spray airmix

Product application:	Apply 2 coats of Aquimax Flameshield Clear basecoat AFS3500 spreading rate weight 120 g/sqm \pm 10% manual sanding with 240/320 grit sandpaper after at least 4 hours between the coats. Drying time at least 6 hours; manual sanding lightly with 320 grit sandpaper. Apply 1 coat of Aquimax Flameshield Clear Lacquer AFS3400 with spreading rate weight 100 g/sqm \pm 10%. Between the two coats sand lightly with 320 grit sandpaper. Total weight to be applied: 340 g/sqm \pm 10%. Note: If thinning the % needs to be applied with extra film weight to achieve specification. To obtain class B according to ASTM-E84, use only water-based topcoats after applying the primer. To achieve a "warmer effect" we recommend to use the Aquimax Flameshield AFS3600 catalysed 1:1 with AFS3600CAT. Apply 80 g/sqm and overpaint after 2 hours without sanding. Sanding is required after 16 hours drying.
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MAINTENANCE

Surface can be cleaned with mild detergent and wet cloth, dry thoroughly after cleaning. To keep the product certificate it is recommended that you periodically check the condition of the coating film. If the support must be restored, apply the same approved amounts.

Warning! The product is very sensitive to low temperatures:

- The Aquimax Flameshield Basecoat may settle if stored or transported at temperatures below 10°C
- Even during the application and drying cycle, it is necessary to maintain an ambient temperature of not less than 15°C, taking care not to exceed the indicated weight per coat, otherwise the drying time may be considerably longer and the chemical, mechanical resistance and transparency characteristics may be below standard

General information for water system:

- Always mix the product well before use.
- Coating left over (washing water, water from spray booths, used coatings) must be disposed of according to local regulations. Never dispose of residues directly in the sewerage system.
- Application tools must be cleaned with water after use.
- After long storage periods, always check for any presence of sediment at the bottom of the container and homogenize the product well before use.
- Do not store below 5 °C.
- In some environmental conditions, the product can develop some sensitivity to moisture. Avoid using it in very damp premises.
- After applying the basecoat it is recommended, in case of stacking, to use between the panels, a PE-HD film with a thickness equal to or greater than 1 mm.
- Always check that the drying is correct before packing the painted item.
- The sanding of the basecoat must always be manual, avoid using of mechanical belt or roller sanders.
- In the case of cavities between the building and the wall, the legislation provides for the application of fireproof products even on these non-visible surfaces.

General information for water system

ORDINARY MAINTENANCE:

- For the cleaning and care of surfaces treated with fireproof systems, we recommend using a damp cloth
- Regular application of the product will help delay extraordinary maintenance
- Any scratches or damage to the coating will need to be attended to and re coated adhering to the specification of the fire retardancy. If the coating is maintained in this way, we would expect the coating to last the length of the furniture.

EXTRAORDINARY MAINTENANCE:

- If there is an accidental detachment of the coating film with exposure of the wood, it will be necessary to restore the damaged part to the highest standard by sanding with 150-180 grit paper and reapplying the same certified coating system with Aquimax Flameshield clear Basecoat and Aquimax Flameshield Clear Lacquer. In case of superficial damage, it will be sufficient to apply a light coat of Aquimax Flameshield Topcoat AFS3400 blended with 20% of Barrier Hardener AFS3600CAT after sanding with 400 grit paper.

If the system, is periodically maintained, it will not loose its fireproofing effectiveness over time; it is however necessary to keep in mind that no durability guarantee can be provided for fireproof products exposed outdoors.

Therefore, to maintain the certified artefact, it is advisable to periodically check the state of the coating film.

Avoid using aggressive detergents containing ammonia, alcohol, abrasives or silicones

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