Technical Data Sheet

Protecflam Industries
Edition 27/10/2025

Verniflam® Aithon F3A

Finishing coating for wood and wood-based materials

Description

Verniflam® AITHON F3A is a translucent water-based finish (varnish) that does not downgrade the fire reaction rating of interior wood and wood-based materials.

Use

Verniflam® AITHON F3A can be used on its own indoors without altering the fire rating of the wooden surface to which it is applied. The coating is film-forming, transparent and matt. Before use, contact Protecflam Industries to ensure this product is suitable for the desired application.

Advantages

- Water-based coating.
- No aromatic solvents.
- Cannot be applied to components under mechanical stress causing curvature radii on the coated component.

Fire reaction

- Wood substrate: Non-downgrading
- Wood substrate: Classified C,s1-d0 with Verniflam® AITHON PV33 according to standard NF EN 13501-1. FCBA classification report
- Wood substrate: Classified B,s1-d0 with Verniflam® AITHON PV33 according to standard NF EN 13501-1. FCBA classification report

Fire resistance

From R15 to R60 according to standards ENV 13381-7 and EN 13501-2.
CSTB classification report no. RS17-021_v2

protecflam

Protecflam
31, rue de l'Étoile du Matin
FR- 44600 Saint-Nazaire
www.protecflam.fr
contact@protecflam.com
+33(0)2 40 90 10 80

Technical Data Sheet

Storage

Storage must be carried out in the original, unopened packaging. Storage at temperatures between +5°C and +30°C: 18 months from the date of production. Store in a cool, dry place.

Packaging: 4 kg - 16 kg
Verniflam® AITHON F3A must be protected from frost!

Technical data

Density:	1,05 g/cm^3 (+/- 5%)
Gloss :	Mat (5)
Solid contents (mass):	30% (+/- 10%)
Viscosity:	21 - 28 sec. (Ford Cup #4)
Drying:	Dust-free after approx. 2 hours (23°C, 50% relative humidity). Fully cured after approx. 24 hours (23°C, 50% relative humidity). The moisture content of the element to be protected must be as close as possible to the equilibrium moisture content of the wood according to the atmospheric conditions in its final use context. Verniflam® Aithon PV33 is suitable for INT1 areas according to EN 16755. Increasing the film thickness and the relative humidity of the air in the drying area generally slows down the drying process.
pH:	7,6 (+/- 0,3)

All measurements were taken at 20°C +/- 2°C.

Implementation and preparation of the support

The substrate must be prepared in accordance with best practice. The substrate must be dry and free of dust, oil, wax, grease, dirt, resin, etc. Existing coatings or coatings with poor adhesion must be completely removed, particularly acid-resistant coatings or decorative coatings such as emulsion paints containing lithopone, charcoal or lime.
In all cases, sand the substrate using abrasive paper. The moisture content of the wood must not exceed 12% (+/- 2%).

protecflam

Protecflam
31, rue de l'Étoile du Matin
FR- 44600 Saint-Nazaire
www.protecflam.fr
contact@protecflam.com
+33(0)2 40 90 10 80

Conditions of use / Limitations

Substrate temperature

Minimum +5°C, maximum +30°C

Air relative humidity (r.h;)

• Maximum 70%
• If the relative humidity of the air is above 70%, measures should be taken to prevent the formation of condensation during application.

Dew point

• No condensation.
• During application and curing, the temperature of the substrate must be at least 3 ° C above the dew point.

Spread rate

40 g/m² up to 100 g/m² (depending on the substrate and the fire classifcation objective).
Fire reaction according to EN 13501-1 (other data available on request).
Fire resistance according to ENV 13381-7 and EN 13501-2.

Specific instructions

Stirring

Stir with a mechanical mixer rotating at low speed until a smooth, lump-free mixture is obtained. Avoid formation or bubbles which could outgas during application or drying.

Spreading methods

The final quality of the work are strongly influenced by the method of application. The indicated dry film thickness is preferably achieved by an airless spray application, which also provides the best surface quality.

If Verniflam® Aithon F3A is used as a top coat of Verniflam® Aithon PV33, do not apply with a brush or roller. The application must be carried out using a spray gun.

protecflam

Protecflam
31, rue de l'Étoile du Matin
FR- 44600 Saint-Nazaire
www.protecflam.fr
contact@protecflam.com
+33(0)2 40 90 10 80

Tool cleaning

Use warm water immediately after completion of the work or appropriate paint cleaner for water based products

Values

All technical values stated in this product data sheet are based on laboratory tests. Circumstances beyond our control may lead to deviations from the actual values.

Restrictions

The indications mentioned in this product data sheet are valid for the corresponding product delivered by Protecflam Industries.

Safety

For safety details, please consult the current safety data sheet from Protecflam Industries.

protecflam

Protecflam
31, rue de l'Étoile du Matin
FR- 44600 Saint-Nazaire
www.protecflam.fr
contact@protecflam.com
+33(0)2 40 90 10 80