Technical Data Sheet

Protecflam Industries
Édition 09/03/2026

Hydroflam® SD19

Fire retardant product for natural Christmas trees and stabilised natural plant moss.

Description

Hydroflam® SD19 is a fire retardant used to delay the ignition of natural fir trees and stabilised natural plant mosses such as bryophytes, balls, lichens, etc.

Use

Hydroflam® SD19 comes in a colourless liquid form (formaldehyde-free). It is ready to use. It can be coloured (powder dye or liquid acrylic) to achieve an aesthetic effect or for traceability. It is slightly foaming.

Prevents the spread of flames and fire and reduces smoke development.

Must be used in dry, enclosed indoor areas.

Advantages

Hydroflam® SD19 is non-toxic and safe when used in accordance with basic safety rules.
Hydroflam® SD19 is highly effective and easy to apply.

Fire reaction results

• On stabilised foam backing: Classified M1 according to standard NF P92-507. FCBA report.
• On natural fir backing: Classified M1 according to standard NF P92-507. FCBA study report (classification durability 1 year)

Storage

Storage must be carried out in the original, unopened packaging.
Store at temperatures between +5°C and +30°C: 24 months from the date of production.

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Store in a cool, dry place.

Packaging: 1 kg - 5 kg - 10 kg - 30 kg
Larger packaging: please contact us.

Hydroflam® SD19 must be protected from frost!

Technical specifications

Density: approx. 1.1 g/cm³ at 20°C ± 0.05

Solid content (mass): N/A

pH: approx. 3.5

System information

Hydroflam® SD19 is a water-based fire retardant solution that improves the fire rating of substrates to which it is applied by delaying ignition and inhibiting the spread of flames and combustion. It can achieve up to an M1 rating depending on the substrate and method of application (please consult us).

Implementation and preparation of the support

The surface must be dry and free of dust, oil, wax, grease, dirt, resin, etc.

Hydroflam® SD19 can be applied in two ways to dry, porous surfaces, on both sides:
• By spraying liberally with a flat jet nozzle.
• By soaking (total immersion in the fire retardant product).

It is advisable to allow the product to dry for between 12 and 72 hours, depending on the temperature and humidity, either naturally or using accelerated drying methods. The fibre may shrink slightly.

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Terms and conditions / Limitations

Substrate temperature

Minimum +5°C, maximum +30°C

Indicative yields

The consumption of Hydroflam® SD19 varies depending on the nature, composition and mass of the substrate and the fire rating you want to reach. In general, the Hydroflam® SD19 coverage rate should be at least 40% of the mass of the substrate to be treated.

E.g.: to fireproof 200 g of foam, 80 g of Hydroflam® SD19 will be required. The mass of the wet substrate before drying must be 280 g.

Cleaning of equipment

With hot water, immediately after finishing the work.

Other comments

Surfaces to be treated must be tested before application. Depending on the dyes and finishes used, there may be a change in colour or appearance. Similarly, there may be a change in texture on some surfaces. Ensure that the surface to be fireproofed has not been pre-treated (e.g. with stain-resistant or water-repellent treatments). Compatibility with Hydroflam® SD19 must be tested beforehand on a small area. Hydroflam® SD19 is not resistant to washing or weathering. As the fire retardant may cause metal oxidation, it is advisable to provide appropriate protection during treatment.

Measured 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.

Safety notes

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

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