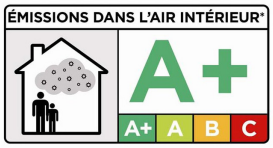
Technical Data Sheet

Protecflam Industries
Edition 09/03/2026





Hydroflam® S17

Fire retardant product for silk.

Description

Hydroflam® S17 is a fire retardant product used to delay ignition and limit the spread of flames in silk-based fabrics.

Use

Hydroflam® S17 comes in liquid form (VOC- and formaldehyde-free), is odourless and colourless. 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® S17 is non-toxic, odourless and safe when used in accordance with basic safety rules.
Hydroflam® S17 is highly effective and easy to apply.

Fire reaction results

On silk backing: Classified M1 according to standard NF P92-507. FCBA report.

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. Store in a cool, dry place.

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

Hydroflam® S17 must be protected from frost!

Technical specifications

Density: approx. 1.0 g/cm³ at 20°C

Solid content (mass): N/A

pH: approx. 3.2

System information

Hydroflam® S17 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 contact us).

Implementation and preparation of the support

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

Hydroflam® S17 can be applied in two ways on dry, porous surfaces, on both sides:
• By spraying with a flat jet nozzle.
• By soaking (total immersion in the fire retardant product).

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

The drying temperature of fabrics treated with Hydroflam® S17 must not exceed 180°C.

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Terms and conditions / Limitations

Substrate temperature

Minimum +5°C, maximum +30°C

Indicative yields

The consumption of Hydroflam® S17 depends on the nature, composition and mass of the substrate and the desired fire rating. In general, the coverage rate of Hydroflam® S17 should be at least 60% of the mass of the substrate to be treated.

E.g.: to fireproof a 200 g silk fabric, 120 g of Hydroflam® S17 will be required. The mass of the wet fabric before drying must be 320 g.

Cleaning of equipment

With hot water, immediately after finishing the work.

Other comments

Depending on the dyes and finishes used, there may be a change in colour or appearance. Similarly, the feel of some fabrics may be altered. Ensure that the fabric to be fireproofed has not been pre-treated (e.g. with stain-resistant or water-repellent treatments). Compatibility with Hydroflam® S17 must be tested beforehand on a small batch. Hydroflam® S17 is not resistant to washing or weathering. As the fire retardant may cause metal oxidation, it is advisable to protect the metal parts during the 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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