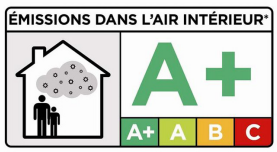
Technical Data Sheet

Protecflam Industries
Edition 17/06/2026



Hydroflam® BC11

Fire retardant liquid for straw, cardboard & dry plant materials

Description

Hydroflam® BC11 is a flame retardant product used to postpone ignition, limit post-combustion and postpone the loss of mechanical properties of straw, cardboard and materials made of natural vegetable fibers, when impregnated.

Use

Hydroflam® BC11 comes under liquid form (without VOC or formaldehyde), odorless and colorless. It is ready for use. It can be tinted (powder dye or liquid acrylic) for aesthetic purpose or traceability.

After the fireproof material has dried, it can be tinted but only with non-degrading products (fire reaction).

Hydroflam® BC11 prevents flames and fire spreading and reduces the smoke production.

Must be used in a cool and dry place, indoor.

Benefits

Hydroflam® BC11 is non-toxic, odorless and safe when used following the basic safety rules.

Hydroflam® BC11 is efficient and easy to use.

Fire reaction

on straw: M1 according to French standard NF P92-512. Record n° CM-15-B-023-2 (FCBA)

on cardboards: M1 according to french standard NF P92-512. Record n° CM-16-B-030 (FCBA)

Storage

Must be stored in the original unopened container, between +5°C and +30°C, 24 months maximum after the date of production.
Store in a cool and dry place.

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Stock containers: 1 kg - 5 kg - 10 kg - 30 kg
Please contact us for larger container supplies.

Hydroflam® BC11 must not be exposed to temperatures below 0°C

Technical data

Density: appr. 1,2 g/cm³ at 20°C

Solid body content (weight): N/A

pH: approx. 4,2

Information

Hydroflam® BC11 is a flame retardant aqueous product that improves the fire reaction of the substrates to which it is applied by retarding inflammation and inhibiting the propagation of flames and combustion. The classification may then reach up to M1 grade, depending on the material and how the product is applied (contact us for further information).

How to use the product

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

Hydroflam® BC11 can be applied in 2 ways (always on a clean, dry and porous fabric):

- Spraying up to saturation with a flat jet nozzle, on both sides
- Soaking (total immersion in the flame retardant liguid)

Let dry between 12 and 72 hours depending on the temperature and hygrometry. Heat dryer and/or fan may be used. A slight shrinkage of the fiber may occur.

Limitation

Material temperature

Minimum +5°C, maximum +30°C

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Quantity

The quantity of Hydroflam® BC11 varies depending on the nature, the composition, the mass of the support and the fire classification needed. A minimum of 30% of the substrate weight must be used

- Eg: for 200 g of cardboard, 60 g of Hydroflam® BC11 is required. The total weight of damp cardboard shall then be 260 g.

Cleaning

With hot water, immediately after the completion of the work.

Remarks

A test on a small batch is required, especially if the substrate has already received a coating or a preserving treatment.

Values

All technical values indicated in this technical data sheet are based on laboratory tests. Circumstances beyond our control can lead to deviations from actual values.

Safety

For further details, please refer to the current Safety Data Sheet from Protecflam Industries.

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