Technical Data Sheet

Protecflam Industries
Edition 20/05/2026

Hydroflam® C10

Flame retardant for cellulosic fibres.

Description

Hydroflam® C10 is a fire-retardant product used to delay ignition, to limit the spread of flames in cardboard which can be impregnated.

Use

Hydroflam® C10 comes in liquid form (without VOC or formaldehyde), odorless and colorless. It is ready to use. It can be colored (powder dye or liquid acrylic) to obtain an aesthetic effect or traceability.
Prevents the spread of flames and fire and reduces the development of smoke.
Must be used in a closed and dry indoor area.

Advantages

Hydroflam® C10 is non-toxic, odorless and safe when used in compliance with basic safety rules.
Hydroflam® C10 performs well and is easy to apply.

Fire reaction

- For cardboard: M1 score (NF P92-507 – FCBA test report)
- For Raffia material: B-s1,d0 (NF EN 13501-1 – FCBA classification report)

Please contact Protecflam Industries for more details.

Storage

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

Containers: 1 kg - 5 kg - 10 kg - 30 kg
For larger containers, please contact us.

Keep Hydroflam® C10 away from freezing !

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Technical data

Density: approx. 1,26 g/cm³ at 20°C

Solid weight content: N/A

pH: approx. 7,3

Other information

Hydroflam® C10 is an aqueous flame retardant solution that improves the reaction to fire classification of the substrates on which it is applied by delaying ignition and inhibiting the spread of flames and combustion. It makes it possible to obtain up to get a M1 score depending on the support and the method of application (contact us).

How to proceed

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

Hydroflam® C10 can be applied in 2 ways on a dry surface :
• By overflow spraying with a flat jet nozzle.
• By soaking (total immersion in the fire retardant).

A 12-hour to 72-hour drying of treated material is advised depending on the temperature and humidity, naturally or accelerated. A slight shrinkage of the fiber may occur as well as a slight waviness of the surface of the board.

Limits

Material temperature

Minimum +5°C, maximum +30°C

Indicative yields

The mass of the Hydroflam® C10 used must be at least 30% of the material mass.

• i.e. : to fireproof 200 g of cardboard, you will need 60 g of Hydroflam® C10. The mass of wet-cardboard before drying should be 260 g.

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Fireproofing is possible on raffia, with at a rate of 15% of the mass of the support or dilution by half if fireproofing by soaking.

Cleaning

With hot water, immediately after completion of work.

Remarks

Test compatibility with Hydroflam® C10 beforehand on a small area first.

Do not expose fire-retardant cardboard to temperatures above 130 °C to avoid destruction of the fireproofing agent.

As the fire-retardant agent may cause metal oxidation, it is advisable to use appropriate protective equipment during treatment.

Values

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

Safety Remarks

For more details, please refer to the current safety data sheet from Protecflam Industries.

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