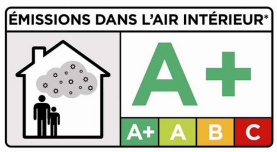
# Technical Data Sheet

Protecflam Industries
Edition 17/06/2026




# Hydroflam® W18

Fire retardant liquid for wood, cardboard & dry plant materials.

## Description

**Hydroflam® W18** comes in a liquid form (without VOCs or formaldehyde), odorless and colorless. It is ready to use. It can be colored (dye or pigment in dispersible form) to get an aesthetic effect or traceability.

The fireproof material, once dry, can be stained, painted or varnished but only with non-derating products.
Retards ignition and limits the spread of flames and smoke from wood and wood-based products thicker than 8 mm. It is effective for an unlimited time a priori in dry or damp conditions indoor and sheltered conditions outdoor in accordance with NF EN 16 755.

Wood is best coated with a non-derating finish for outdoor applications.

## Benefits

**Hydroflam® W18** is non-toxic, odourless and safe when used in accordance with basic safety rules.

**Hydroflam® W18** has a high performance and is easy to apply. It has an excellent penetration capacity in all wood substrates.

## Reaction to fire

Euroclass C,s1-d0 according to NF EN 13501-1. FCBA Classification Report n° 21-RC-26

DRF INT1 (dry interior) and INT2 (wet interior or outside under cover) according to NF EN16755:2017. FCBA classification report n° 21-DRF-05.

## Storage

**Hydroflam® W18** must be stored in its original, unopened container.
Store at temperatures between +7 °C and +30 °C up to 18 months from the date of production.
Store in a cool, dry place.

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Stock containers : 1 kg - 5 kg - 10 kg - 20 kg
For larger quantities, please contact us.

**Hydroflam® W18 must be protected against frost!**

## Technical data

**Density** : approx. 1,1 g/cm³ at 20°C

**Solid body content (weight)** : N/A

**pH** : approx. 1,5

## Information

Hydroflam® W18 is an aqueous fire retardant solution that improves the fire rating by retarding ignition and inhibiting the spread of fire of the substrates to which it is applied. It can be used to obtain up to a Euroclass C depending on the substrate and the method of application (contact us).

## Modus operandi

The substrate must be dry, free of dust, oil, wax, grease, dirt, resin, etc.
Hydroflam® W18 is applied to dry surfaces on both sides + edges by spraying with a flat jet nozzle or by brush/roller.

Let dry, either naturally or accelerated, between 12 and 72 hours depending on temperature and humidity.

Minimum +7°C, maximum +30°C

## Work conditions / Limits

### Substrate temperature

Minimum +7°C, maximum +30°C

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### Yields

250 g/m² (in two layers if necessary) per exposed side, on wood thicker than 8 mm and with a density greater than or equal to 338 kg/m$^3$.

### Cleaning

With hot water, immediately after completion of the work.

### Remarks

Before using, test on a small batch, especially when the substrate has already received a coating or a preserving treatment.

If a non-fire-degrading finish is to be applied, test on a small area first.

May cause a slight change in colour of the substrate when drying (possible oxidation of the wood).

Some whitish deposits may appear at the bottom of the can and do not affect the quality of the product.

## Measured 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 the actual values.

## Safety remarks

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

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