

# TECHNICAL DATA SHEET

## NORFLAM® W311

Version 2.0

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**Description** Water-borne flame retardant solution for exterior and interior wooden surfaces.

**Fire classification** Up to C-s1, d0

**Recommended uses** Cladding, panelling

Spruce, pine, thermally modified spruce cladding

Industrial, on-site and off-site

### Technical data

Weight solids 24 w-%

Density 1,12 g/cm<sup>3</sup>

Color tones Nordic hues color collection

### Application guidelines

Wood species	g/m <sup>2</sup>	m <sup>2</sup> /liter	Layers/ side
Spruce and pine cladding, front side and sides	300	2	3-4
Spruce and pine cladding, back side	150		2
TMT spruce cladding, front side and sides	300	2	3-4
TMT spruce, back side	200		2

Surface preparation

Wood to be cleaned and free of dust, dirt and loose particles. Planed surfaces need to be tested first due to limited absorption.

Application conditions

Product temperature 15-50°C

Air temperature 15-50°C

Relative humidity 20-60%

	Wood moisture content	5-25%
Pre-use instructions	Sufficient mixing before use as well as during the use.	
Recommended application methods	Air-mix spray, airless-spray, brush line, flow coating, vacumat	
Drying times	5-25 minutes (+55°C, 60% RH) 30-120 minutes (+18°C, 60% RH) Final drying for 48 hours (+18°C, 60% RH)	Drying times are related to surrounding temperature and air humidity.
Topcoats	No topcoats	
Thinner	No thinning	
Tips for optimal results	Check the final color on a smaller sample first. Treatment to be done during the same work day.	
Cleaning of equipment	Water	
Additional comments	If wood products are cut, the exposed areas must be treated with NORFLAM® W311. Use only stainless steel fixings when in contact with NORFLAM® W311 treated wood.	
	Refer to application and maintenance guidelines for further information.	
<b>Health and safety</b>	See safety data sheet	
<b>Volatile organic compounds (VOC)</b>	Low	
<b>Environmental compliance</b>	Biobased solution	
<b>Storage</b>	Store at temperatures from 5 degrees to 25 degrees and out of direct sunlight. Must not freeze.	
	Shelf life is 3 months for tinted product and 12 months for clear product. The opened package has a more limited shelf life.	
<b>Waste</b>	Product waste to be treated as hazardous waste.	

The suitability of the treatable material shall be inspected by the manufacturer with respect to his/her requirements regarding quality, color, and the like, e.g. by a sample staining and/or sample varnishing.

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and methods related to fire protection must always be documented in accordance with the instructions of Nordtreat and the authorities.

NORFLAM® W311 is for professional use only. Nordtreat requires that the actual specialist using the fire protection product has received training for fire protection treatment from Nordtreat and that he is familiar with the documentation of the fire protection product: the treatment instructions, the technical data sheet and the safety data sheet.