



Adolit BSS 1

Water-soluble, boron-free fire retardant for wood impregnation



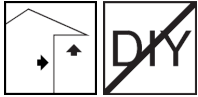
Colour	Availability
	Quantity per pallet 30
	Size / Quantity 25 kg
	Type of container Plastic bucket
	Container code 25
	Art. no.
clear	2160 ■

Application rate

Spruce/fir: the average application quantity must be ≥ 25 kg salt / m^3 wood and ≥ 200 to 250 g salt / m^2 (depending on the timber cross-section / planks) of the wood surface to be protected. For wood species not listed here, please consult Remmers Technical Service.



Range of use



- Interior wood
- Exterior wood not directly exposed to weather
- Roof structures
- Wall and ceiling panels
- Wall and ceiling constructions
- Shop fitting and trade fair stands
- Theatre and stage constructions
- Prefabricated timber houses
- Stables, sheds
- For use by professionals

Property profile



- Improves the fire behaviour of wood
- Free from boron and biocides
- Clear once dry: does not stain the wood
- The impregnated wood retains its natural appearance
- Approved for use in systems with selected decorative coatings
- Easy to prepare with water

Characteristic data of the product

Bulk density	Approx. 0.95 g/cm ³
Composition/consistency	White, crystalline salt mixture
Odour	Odourless once dry

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

- **Fire behaviour: DIN EN 13501-1 (B-s2, d0)**
- **Ageing tests**

Additional information

- **Nachhaltigkeitsdatenblatt**

Possible system products

- **Induline LW-718 WF (2668)**
- **Induline DW-618 WF (2664)**

Preparation

- **Substrate requirements**
The substrate must be clean and free of dust.
The substrate must be free of all traces of fungal or bacterial attack, algae growth or insect infestation.
Permissible wood moisture content: $u < 25\%$



Thick solid timber ≥ 22 mm
 Thick tongue and groove joints ≥ 12 mm
 The wood must be cut to size and finished.

■ **Substrate preparation**

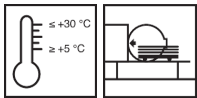
Do not attach metallic fittings prior to impregnation.
 Spacers must be inserted between wood layers (ideally plastic rods).

Production of the mixture

■ **Mixing**

To produce a 17% solution, mix 17 kg of the product with 83 l of water.
 Use the entire contents of the container.
 Add to the impregnating solution while stirring or circulating.
 For continuous operation, add max. 0.3% VP 20468* Antibac to the solution.

Directions



■ **Conditions for use**

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.
 Relative humidity max. 80%.

Vacuum pressure impregnation process

Pre-vacuum: -0.9 bar (min. 30 min)

Pressure phase: ≥ 9 bar (min. 4 hrs)

Post-vacuum: -0.7 bar (min. 15 min)

After re-drying (wood moisture content max. 15%) and removal of the excess salt residues by brushing, the treated wood can be coated with approved decorative coatings (see system products).

Tips on use

The treated components must be protected against rain and moisture (enclosed spaces, covered structures etc.) and must not be exposed to weathering.

■ **Drying**

Re-drying: after approx. 4 weeks (at 23 °C and 50% RH)

Technical drying in a drying chamber is recommended.

Low temperatures, poor ventilation and high humidity delay drying.

Wood moisture content may only be measured using the Darr method.

Notes

The impregnation system must be provided with a suitable protective coating.

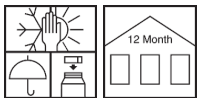
Tools / Cleaning

Vacuum pressure impregnation process



Storage / Shelf life

If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 12 months.



Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.