

Diffusol® Wood Preservative Concentrate

The preferred protection against borers



Product Information

Our boron based preservative provides effective protection against all borers and its flexibility allows for treatment either by pressure/vacuum or dip diffusion.

Diffusol® is colourless and contains a mould inhibitor, making it a preferred protection against lyctus borer attack into the sapwood of eucalypt species being used for flooring.

Supplied as a concentrate with the sodium borate liquid at room temperature providing simplicity for mixing to the required concentration for treatment as required.

To commence treatment with Diffusol® or you seek additional information, contact the Lonza Wood Protection team today.



Phone: 1300 650 636

Diffusol®

Technical Information

DESCRIPTION

Active	454g/L Boron salts expressed as
Constituents:	Boric Acid Equivalent (BAE) 11g/L 2-n-octyl-4-isothiazolin-3-one
Solvent:	water
Formulation:	Liquid crystalline suspension
Appearance:	Thick white liquid
Odour:	Slight metallic odour
Solubility:	Forms a suspension in water
Density:	1.20 g/ml @ 20°C
Viscosity:	500 cps @ 20°C
pH:	8.0 + 0.5 @ 20°C

TREATMENT PROCESS

Dip Diffusion - As timber must be in the 'green-off-saw' condition, ensure that there is minimal delay between felling, sawing and dipping. Immerse timber in the dilute Diffusol® solution and ensure all surfaces are fully wetted. An immersion of 1 - 10 minutes should be sufficient. Place timber on a drip-pad until drip-free and return collected drip to the working solution. Softwood and hardwood timber greater than 50mm thickness should be dipped twice, with a seven day delay between dips during which time the timber should be stored as follows. Place dipped timber in diffusion storage for 5 - 10 weeks. Conditions must be maintained to prevent moisture loss (drying) from timber during this time. Normal practice uses close fitting tarpaulins, heavy duty black plastic wrap and roofed storage areas.

Pressure Impregnation - Timber to be treated may be green, steam conditioned or dried (<30% moisture content). Timber is treated in a conventional vacuum/pressure treatment plant, however it must be allowed to diffuse for up to three weeks prior to being released for sale.

A Lonza Wood Protection representative can advise on the most appropriate concentration to use for the application method, treatment process, timber commodity and end use.

Typical solution strengths used are:

- dip diffusion 9.0 - 13.0% w/v BAE
- pressure treatment 0.5 - 4.5% w/v BAE



BASIC INFORMATION

Diffusol® is a boron preservative for the protection sawn timber against borer attack (H1). It is applied by either dip diffusion or pressure impregnation.

DIRECTION FOR USE

Diffusol® does not require heating to mix or use. Diffusol® should be mixed prior to dilution with water to the required solution strength. Ideally whole containers should be mixed at one time. If any deposits are found on the bottom of containers, thoroughly mix the concentrate to resuspend in solution before decanting.

Diffusol® is stable in original container for six months. Dilution and use is recommended within three months. Store in a secure area away from excessive cold, frost or freezing.



Diffusol®

Questions and Answers

Why should we use Diffusol® over other types of timber preservatives?

Diffusol® is supplied as a pre-mixed concentrate with a high level of active Boron that can be used at room temperature and does not require heating for use, also making delivery and storage easy.

Is Diffusol® eco-friendly?

Diffusol® has low toxicity to humans and other mammals. When used as recommended it greatly enhances the durability and the lifetime that the preservation process confers to the treated timber products.

What precautions should I take when handling Diffusol®?

Lonza Wood Protection supply Safety Data Sheets to timber treatment companies for the products it supplies to assist them in determining what health and safety precautions are necessary.

These cover the products as supplied and the precautions to be taken during the use of the product in the timber treatment process. They are not relevant to the final treated timber product, and should not be forwarded to end consumers of treated timber products.

Lonza Wood Protection can assist with the development of product safety data sheets for diluted working solutions and the final treated timber product where requested.

How does Diffusol® work?

Application of a water based sodium octaborate by diffusion creates an effective barrier to borers, particularly lyctus borer attack to sapwood of susceptible species of hardwoods.

For what application is Diffusol® suitable?

Diffusol® is approved by APVMA for H1 protection against borers. It is supplied as a liquid for easy use and application.





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