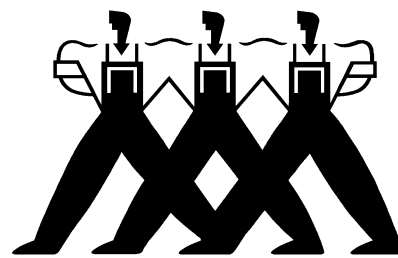


BORON BASED Preservatives

A Technical Summary of Features

SINGLE CHEMICAL - TRIPLE ACTION
TIMBER & MASONRY
TREATMENTS



Property Repair Systems
01626 331351

Introduction

Our Borons are fungicidal and insecticidal treatments manufactured from Inorganic Compounds of the Element Boron. They prevent insect attack and eradicate Dry rot in timber, being mobile in dry timber. They allow the use of the **ZERO CUTBACK OPTION** - no sound timber need be removed beyond the physically damaged zone. They also provide permanent protection, as the active ingredient does not break down or evaporate.

Special features

- Surface penetration
- Easy to apply by brush/spray
- Fungicide/Insecticide
- Odourless
- Non Flammable/retardant
- Very low acute toxicity
- No emulsions

HISTORY

Compounds of Boron, known as Borates, have been mined since the 1800s and have been used to control insect pests for over 100 years.

By the 1940s borate formulations were being used to protect wood. Because they are water soluble, borates diffuse into wood using the wood's own moisture (even 'air dry' timber has a moisture content of 12-15%) and they protect against termites, wood destroying beetles, carpenter ants and fungi, including Dry rot.

TECHNICAL DATA

Active Substance

Disodium octaborate tetrahydrate at up to 20% w/w ($\text{Na}_2\text{B}_8\text{O}_{13} \cdot 4\text{H}_2\text{O}$) Equivalent to 244 grams per litre

Boric Acid Equivalent = 23.8% active

For Pre-Treatment - supplied under BBA Certificate No. 93/2893.

Supplied as:

- a white powder, to dissolve in water
- a clear gel, ready to apply to surfaces
- an opaque paste, ready to inject

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WORLDWIDE USE

Over 40 years of successful use in Europe, Australia, New Zealand and the USA. Used in dusting, foaming, spraying, brushing and pressure treatment applications. Other major uses include: glass production, detergent preparations, enamel and ceramic glazes.

PENETRATION

Even when applied in its most basic form, as a solution (up to 12.5% active) in water, borates penetrate a minimum of 2-3 mm in 'DRY' timber and more, depending on the moisture content of the timber. In conjunction with Glycols, as gels and pastes (in concentrations of up to 78%) penetration increases dramatically. These more expensive products are designed for situations where deep seated decay requires high below-surface concentration of the active ingredient. This is not required, or desirable for normal Common furniture beetle spraying.

DURABILITY

Boron remains inert in the timber, providing protection long enough for Railtrack to have specified it for Railway Sleeper protection.