



Azotek®

Glueline based protection for LVL and I-Beams against insects and decay



Azotek was developed in response to a strong industry request to eliminate the need for conventional post manufacture treating and its associated issues.

Novel technologies were developed allowing the addition of the biocides into the glueline to provide excellent protection to level H1.2 against fungal and insect attack. Typical problems with waterbased treatments such as swelling and the need to re-dry are overcome by the use of Azotek.

Azotek is a combination of both fungicides and an insecticide added to the glueline during normal manufacturing process to deliver outstanding protection from the exterior through to the core.

During the pressing of the plywood or LVL, biocide migration occurs from the glueline into the surrounding veneers.

For additional protection, an application of the anti-fungal biocides are applied onto the exterior surfaces as a first line of defence.

Azotek is a mixture of triadimefon, cyproconazole and bifenthrin, all well-known biocides also registered for use in crop protection. It is the synergistic effect of these compounds that provides outstanding activity against a wide range of wood damaging organisms.



AZOTEK® Research

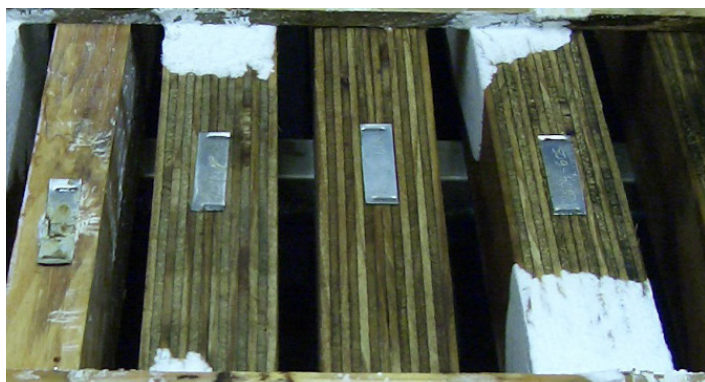
Numerous laboratory decay trials were conducted on a wide range of anti-fungal products. From this, the Azotek product was born. Trials, including one joint with SCION, were completed using a framing decay test where Azotek was trialled against standards approved treatments. The trials showed Azotek performance was more than adequate as an H1.2 treatment and as such was accepted by the New Zealand and Australian standards committees for inclusion into the appropriate treatment standards.



Azotek treated (Bottom) and untreated samples from framing trial.



Azotek treated (Top) and untreated samples from framing trial.



Azotek treated (Centre Right) and untreated samples from framing trial.

Health and Safety

Azotek biocides are commonly used in food production. Engineered wood products treated with Azotek are safe to use when handled correctly. When handling Azotek treated engineered wood recommended PPE includes gloves and safety glasses. If generating dust, a suitable dust mask is recommended.

The Azotek Advantage

- Lonza is an established global leader in the supply and manufacture of biocides for wood products.
- Lonza complies with the requirements of good manufacturing process.
- Full penetration treatment
- Azotek is applied during the manufacture of LVL/plywood leaving the product dry and ready for use, and thus does not have most of the issues common to conventional water borne treatments.
- Azotek is a new product developed for the treatment of LVL & I-Beams meeting H1.2 requirements under NZS3640:2003 (amendment 5), AS/NZS1604.3:2012 & AS/NZS1604.4:2012.
- No effect on structural properties
- Azotek active ingredient retention is confirmed by 3rd party chemical analysis. The manufacturer of Azotek warrant the formulation to contain the specified active ingredient within accepted tolerance.
- The glue-line application process ensures treatment to the core allowing for on-site modifications (eg. cutting, drilling) without the need for retreatment or resealing to ensure the integrity of the treatment.

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