

| Code  | Description                              | Size     | Colour |
|-------|--|----------|--------|
| 44001 | Metalex Concentrated Timber Preservative | 500 ml   | Green  |
| 44002 | Metalex Concentrated Timber Preservative | 1 Litre  | Green  |
| 44003 | Metalex Concentrated Timber Preservative | 4 Litre  | Green  |
| 44009 | Metalex Concentrated Timber Preservative | 20 Litre | Green  |

### 1. Description

Metalex Concentrated Timber Preservative is a preparation for the envelope and remedial treatment of fibrous products including timber.

### 2. Characteristics

- Preserves the wood treatment envelope
- Protects treated materials against insect attack and fungal decay
- Reduces moisture uptake of timbers, UV Degradation, limiting warping of timbers, weathering effects, cupping swelling and grain rising.

### 3. Technical Data

|  |   |
|--|---|
| <b>Appearance:</b>                     | Green, slightly viscous liquid                      |
| <b>Active Ingredient:</b>              | Liquid Copper Naphthenate 60%, (Copper as metal 4%) |
| <b>Odour:</b>                          | Mild, mineral turps                                 |
| <b>Specific Gravity: (25°C)</b>        | Ca. 0.90 → 0.92                                     |
| <b>Coverage: (Timber)**</b>            | 6 – 8m <sup>2</sup> / litre (mixed product)         |
| <b>Mix Ratio: Construction timbers</b> | 2 parts Metalex Concentrate ; 3 parts Solvent       |
| <i>Bee Hives</i>                       | 1 parts Metalex Concentrate ; 5 parts Solvent       |
|  |   |

\*\* Coverage is dependent on timber density, timber moisture content and surface finish.

### 4. Applications

- Can be used as a preventative treatment from timber degradation over time.
- Remedial treatment of timber species for the preservation of the treatment envelope.
- Envelope Preservation Treatment of H3.1, H3.2, H4, H5 timbers in accordance with the New Zealand Building Code
- Prevention of decay & mildew protection of canvas goods, tarpaulins, burlap, sandbags,

### 5. Packaging

500ml, 1 l, 4l, 20l

### 6. Shelf Life

12 months in unopened packaging, when stored in a cool and dry place at a temperature between +5°C and +25°.

## 7. Application Instructions

### Surfaces

|              |   |
|--------------|---|
| Type:        | All usual building surfaces such as construction timbers, canvas goods, and cordage based items   |
| State:       | Surfaces should be clean and free of dust and grease etc.   |
| Preparation: | If timber to be treated has "rot", then this should be cut out and rectified in accordance with good building practice. If mould exists then the area should be affected timber should be cleaned with Metalex Wood Cleaner.<br>It should be noted that adhesive glue lines in both Plywood products and LVL/CLV timbers can impair the penetration of the Metalex Timber Preservative. |
| Method:      | Dipping, paint on or spray application. <u>Process all timbers to be coated in a well-ventilated area</u>   |
| Coverage:    | Timber: 6-8 m <sup>2</sup> per litre of mixed product (Timber dependant on density, moisture content and surface finish of the timber)  |

### Recommended Mixing:

|                       |   |
|-----------------------|---|
| Construction Timbers: | Dilute two parts Metalex Timber Preservative Concentrate with three parts Solvent (ie: Mineral Turpentine) (for every 500ml of Metalex Timber Preservative Concentrate add in 750ml of solvent)   |
| Bee Hives:            | Dilute one part Metalex Timber Preservative Concentrate with five parts Solvent (ie: Mineral Turpentine) (for every 500ml of Metalex Timber Preservative Concentrate add in 3 litres of solvent). It is recommended that the thinned Metalex Timber Preservative is only applied to the external parts of the bee hive. |

### **Do not use "straight" as the Metalex Timber Preservative will not be absorbed into the timber and will not improve the treatment.**

|               |   |
|---------------|---|
| Coats:        | Holdfast NZ Ltd recommends a minimum of two coats   |
| Drying:       | Dependant on ambient temperature, humidity and moisture along with density and moisture content of the timber.  |
| Between coats | Timber should feel dry before applying a subsequent coating. At 20°C 65% R.H. – Holdfast would expect this to be approx.. 4 hours.  |
| Full Drying:  | (Based on 20°C 65% R.H)<br>Thinned with Kerosene – 10 → 12 weeks<br>Thinned with Solvent (mineral turpentine) – 7 → 10 days (Bee Hives, Holdfast recommends 8 → 10 weeks) |

Holdfast NZ Ltd recommends that the user read the limitations to ensure that the product meets their requirements.

Refer to Metalex<sup>®</sup> Timber Preservative Clear Technical Data Sheet for more detailed information.

## 8. Limitations

Holdfast Metalex Timber Preservative will not provide an H-Class treatment to timbers as per the requirements of the NZ Building Code. It will only provide a supplementary envelope treatment to the applied timber.

While Holdfast Metalex Timber Preservative will protect against the "Rotting" of timbers it is not a rot converter of degraded timber substrates.

Painting over Metalex Timber Preservative: If using a solvent thinned (mineral turpentine) base then you will need to wait a minimum 7 → 10 days between application of the Metalex and an acrylic coating. If using an oil based paint/stain coating then Holdfast recommends a period of 2 → 3 days between application of the Metalex and a coating. It is recommended that a preliminary test be carried out to ensure that the desired result is achieved.

Metalex Timber Preservative will protect timbers against insect ingress, however it will not kill insects in the timber that the thinned solution does not absorb to. It will only protect to the depth that it can be absorbed in the timber.

Metalex Timber Preservative will protect timbers against fungal attack, however it will kill any fungal spores to the depth that the thinned product can be absorbed into the timber.

Metalex Timber Preservative is not a registered animal husbandry product.

**WARNING: This product is designed for outdoor use. Indoor application may cause odour.**

HOLDFAST<sup>®</sup> Metalex<sup>®</sup> Green does not react to galvanising, however to avoid risk of staining it is recommended that HOLDFAST<sup>®</sup> Metalex<sup>®</sup> Green should not be put into contact with galvanised or zinc coated surfaces until surface of material being treated with Metalex is completely dry. Further it is recommended that Metalex is not applied to 'Zincalume' coated surfaces.

## 9. Health and Safety Recommendation

- Apply usual industrial hygiene practises.
- Keep out of reach of children. This product is designed for manufacturing use only. While the product has low toxicity, good hygiene practices should be required of those handling this product.
- HOLDFAST<sup>™</sup> Metalex<sup>®</sup> Green has a low order of acute oral toxicity-LD<sub>50</sub>. Avoid eye contact. Prolonged skin contact may cause irritation. Wear goggles and rubber gloves when handling. Do not breathe vapour or spray mist. Wash thoroughly after handling. If spilled on to clothing, remove and wash before re-use. Discard contaminated shoes.
- Do not contaminate water sources, food or feed by storage by disposal.
- In case of spillage, cover with inert absorbent material and remove completely for disposal according to procedures approved by disposal authorities.
- Open burning or dumping is prohibited.
- HOLDFAST<sup>™</sup> Metalex<sup>®</sup> Green is a combustible liquid. Keep away from heat and open flame. In case of fire, use water spray, foam CO<sub>2</sub> or dry chemical. Wear self-contained breathing apparatus to fight fire.
- Please refer to the MSDS for more detailed information.

### **Remark**

*The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.*

**If any clarification is required, please contact Holdfast Technical Services or email [sales@holdfast.co.nz](mailto:sales@holdfast.co.nz).**

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