

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 supplementary envelope and remedial treatment of fibrous products including construction timbers.

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

Appearance:	Green, slightly viscous liquid
Active Ingredient:	Liquid Copper Naphthenate 60%, (Copper as metal 4%)
Odour:	Mild, mineral turps
Specific Gravity: (20°C)	Ca. 0.83 → 0.86
Coverage: (Timber)**	6 – 8m ² / litre (mixed product)
Mix Ratio: Construction timbers	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. Building Product Information

Manufactured By Soudal Ltd
Distributed By Soudal Ltd

Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (a) 50 years, B2.3.1 (b) 15 years and B2.3.1 (c) 5 years
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

Contribution to compliance With NZBC

B2.3.1 (a) 50 years, B2.3.1 (b) 15 years, B2.3.1 (c) 5 years: This product is formulated as a supplementary envelope treatment for H3.1, H3.2, H4, H5 timbers when applied in accordance with the relevant Soudal product technical information. It provides this durability in line with the original H-Treatment classification of the timber it is being applied too when installed and maintained in accordance with the relevant Soudal product technical information. soudal.co.nz. Soudal maintains management and production records within its ISO9001:2015 Quality Management System.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's product installation instructions and does not present a health hazard to people occupying or using the building structure. Refer to the Soudal Product Technical Data sheet and product Safety Data Sheet soudal.co.nz for further information if required.

8. 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 a Wood Cleaner. 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. Process all timbers to be coated in a well-ventilated area

Coverage: Timber: 6-8 m² 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: Soudal 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. – Soudal would expect this to be approx.. 4 hours.

Full Drying: (Based on 20°C 65% R.H)
Thinned with Kerosene – 10 → 12 weeks
Thinned with Solvent (mineral turpentine) – 7 → 10 days (Bee Hives, Soudal recommends 8 → 10 weeks)

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

Refer to [Metalex' Timber Preservative Clear Technical Data Sheet](#) for more detailed information.

9. Limitations

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.

Metalex Timber Preservative is not designed for use on H1.2 Framing Timbers. To do so is against the NZ Building Code.

While 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 Soudal 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.

Metalex[®] Green does not react to galvanising, however to avoid risk of staining it is recommended that Metalex[®] 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.

10. 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.
- Metalex[®] Green has a low order of acute oral toxicity-LD₅₀. 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.
- Metalex[®] Green is a combustible liquid. Keep away from heat and open flame. In case of fire, use water spray, foam CO₂ or dry chemical. Wear self-contained breathing apparatus to fight fire.
- Please refer to the MSDS for more detailed information.

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email info@soudal.co.nz.***

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