

PRESERVATIVE SYSTEM	KEY FEATURES	KEY BENEFITS	LIMITED GUARANTEE*
Lifewood® CCA (H1.1-H6) Chromated Copper Arsenate	Water carrier Proven durability in harshest conditions Fungicide and insecticide	Economical Reliability and confidence Proven resistance to fungal decay and insect attack	50 years 
MicroPro® (H3.2-H5) Micronised Copper Azole	Water carrier Revolutionary Micronised formulation Fungicide and insecticide	Lighter, more natural appearance. Improved painting and staining qualities Approved for aluminium contact	50 years 
NatureWood® ACQ® (H3.2-H5) Alkaline Copper Quaternary	Water carrier Copper-based preservative Long term protection in Hazard Class H3.2-H5	Alternative system for above and below-ground contact Proven durability Proven resistance to fungal and insect attack	50 years 
Protim® Micro (H3.2) Micronised Copper Azole LOSP	Solvent-based Revolutionary Micronised formulation Fungicide and insecticide	Ideal for treatment of H3.2 dry structural products Needs no re-drying	50 years 
Protim® Optimum (H3.1) Propiconazole, Tebuconazole and Permethrin LOSP	Solvent-based Fungicide and insecticide	Used for the preservation of kiln-dried products where exacting dimensions are required	25 years 
Protim® Aquazole (H1.1 – H3.1) Propiconazole, Tebuconazole and Permethrin	Water-based Fungicide and insecticide	Carbon-based Colourless and non-corrosive	25 years 
SureBor N/ FramePro™ (H1.1-H3.1) Boron and Benzalkonium Chloride	Water-based system Low uptake H1.2 treatment for kiln-dried framing Fungicide and insecticide	No significant change in dimension or moisture content No significant effect on structural properties	5-15 Years 
Liquid Boron™ (H1.1-H3.1) Boron	Water carrier Fungicide and insecticide	Economical Proven resistance to fungal decay and insect attack	5-15 Years 

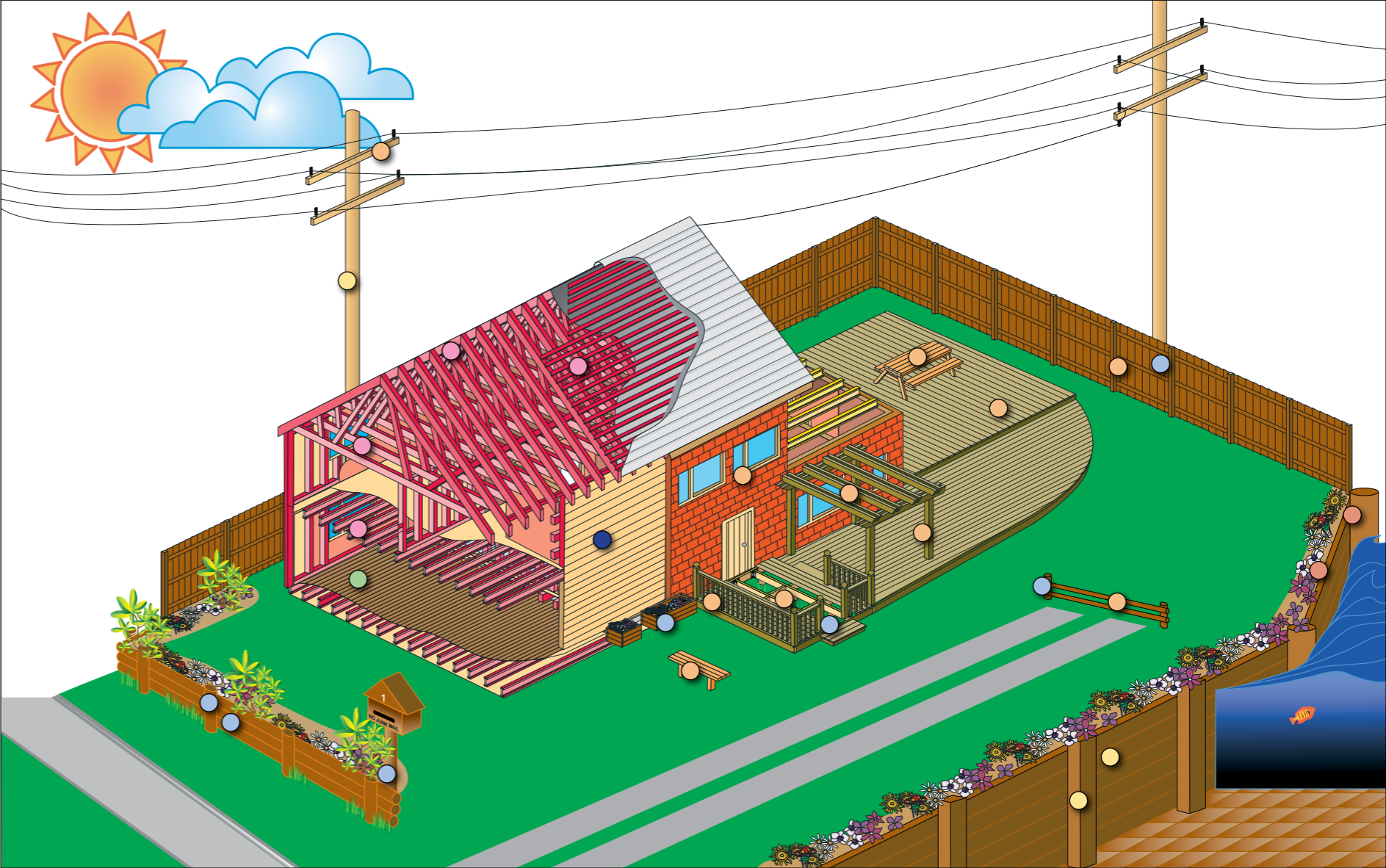
* See separate limited guarantee document for more details. Note: Refer to the New Zealand Standard 3640:2003 for detailed information.

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Koppers guide to the Hazard Class System and Timber Preservation options in New Zealand.



Guide to the New Zealand Hazard Class System (from NZS3640)



Hazard Class 1.1

Exposure: Protected from the weather, above ground
Conditions: Protected from the weather, always dry
Biological Hazard: Borers
Typical Uses: Interior finishing timber (see NZS3602)

Hazard Class 1.2

Exposure: Protected from the weather, above ground, but with a possibility of exposure to moisture
Conditions: Protected from the weather, but with a risk of moisture content conducive to decay.
Biological Hazard: Borers, decay
Typical Uses: Wall framing (see NZS3602)

Hazard Class 3.1

Exposure: Exposed to the weather, above ground
Conditions: Periodic wetting, not in contact with the ground
Biological Hazard: Decay fungi and borers
Typical Uses: Cladding, fascia, joinery (see NZS3602)

Hazard Class 3.2

Exposure: Exposed to the weather, above ground, or protected from the weather but with a risk of moisture entrapment
Conditions: Periodic wetting, not in contact with the ground, more critical end uses
Biological Hazard: Decay fungi and borers
Typical Uses: All H3.1 uses, plus structural uses and decking (see NZS3602)

Hazard Class 4

Exposure: Exposed to the weather, in-ground or fresh water
Conditions: Ground contact, or conditions of severe or continuous wetting
Biological Hazard: Decay fungi and borers
Typical Uses: Fence posts, landscaping timbers

Hazard Class 5

Exposure: Exposed to the weather, inground or in fresh water
Conditions: Ground contact, or conditions of severe or continuous wetting, where uses are critical and where a higher level of protection than H4 is required
Biological Hazard: Decay fungi and borers
Typical Uses: House piles and poles, crib walling

Hazard Class 6

Exposure: Sea water or estuarine ground
Conditions: Immersion in seawater or estuarine ground
Biological Hazard: Marine wood borers and decay
Typical Uses: Marine timber and piles

Approved Koppers Preservative Systems (see back page for details)	HAZARD CLASS						
	H1.1	H1.2	H3.1	H3.2	H4	H5	H6
Lifewood CCA	✓		✓	✓	✓	✓	✓
MicroPro®			✓	✓	✓	✓	
Naturewood ACQ®			✓	✓	✓	✓	
Protim® Micro			✓	✓			
Protim® Optimum	✓		✓				
Protim® Aquazole	✓	✓	✓				
FramePro™ / SureBor N	✓	✓	✓*				
Liquid Boron™	✓	✓	✓*				

Remedial/Brush-On Products

In addition to the commercially-applied preservatives described on these pages, Koppers also offers a range of remedial brush-on products.

Protim® FrameSaver™ is a boron-glycol wood preservative that is based on boron, an effective fungicide and insecticide. This is ideal for application to affected timber during remedial work, or to restore boron content to exposed standing frames.

Protim® Reseal Clear and Reseal Green are solvent-based brush-on preservative products based on zinc- and copper naphthenate, intended to be applied to cuts, notches and bored holes in treated wood, to restore a protective envelope.

* With approved 3-coat paint system only.