



QRT-100 Clear Timber Fire Retardant Technical Data sheet - Application Methodology

1. OVER VIEW OF PRODUCT

QRT-100 Timber Fire Retardant Treatment is an Australian made, water based fire retardant treatment that is designed to passively impregnate into **raw, unsealed timber**. It is not suitable for the treatment of timbers / laminates that have been sealed or coated. This product is not a paint!

This product been tested to **C1.10a - AS3837 cone calorimeter test** and gained a **group 2**.

The product may also be used to meet with the Australian Bushfire standard – AS 3959 – 2009 in non weather exposed locations only. (AS3837)

To gain long term durability and moisture / water resistance the fire retardant treatment must be sealed with QRT-100 Top Seal. To maintain long term integrity of the QRT 100 fire retardant this sealer and or subsequent further clear top coats must be maintained. The QRT Top Seal may be over coated with most quality acrylic top coats. Follow manufactures guide lines on all subsequent top coat products in relation to life cycles and re application.

Whilst QRT-100 offers an excellent level of fire retardant performance on most timbers, due to the variation of timber density, moisture content and manufactures treatment of timbers, the fire retardant performance of the product will vary from timber to timber. The product has been tested to AS 3837 on radiata pine. This timber is considered to be one of the most commonly used combustible soft wood timbers.

2. SAFETY RECOMMENDATIONS

1.1 Skin/Eye Irritation

Freshly opened liquid may cause skin irritation. Avoid contact with the skin and eyes by wearing suitable gloves, clothing and eye protection. In the event of contact, wash skin immediately with clean water to help minimise possible irritation. If any material gets into the eyes, wash immediately and repeatedly for *at least* 15 minutes with an eye wash liquid or simply clean running tap water. If irritation persists, seek medical advice.

1.2 Respiratory Irritation

Use in a well ventilated area.



3. LIMITATIONS

APPLICATION TEMPERATURE LIMITATIONS:

Due to potential application difficulties which are likely to increase and compound outside the temperature range of **14C and 29C**, it is recommended that application is carried out only within this range. Therefore for best results do *not* apply QRT – 100 Fire Retardant when the temperature of the ambient air or that of the surface to be coated is below **14C** or above **29C**. In high temperature conditions apply early or late in the day to avoid expected high temperatures of exposure to direct sunlight. In cold weather apply in the middle of the day when temperatures are expected to be relatively higher.

TESTING IS ESSENTIAL: Due to the wide variant of timbers and manufacturers timber treatments at the point of manufacture **always test** QRT – 100 Timber Fire Retardant on a small sample of timber to ensure the product will successfully impregnate into the raw timber prior to application works.

4. COVERAGE RATE & STORAGE FOR QRT-100 TIMBER FIRE RETARDANT

3.1 Recommended Coverage Rate for Most Coating Jobs The coverage rate will vary some what in accordance with the type and condition of timber being fire retarded, but as an average a litre covers 10 (ten) square metres of timber. Two (2) flooded coats of the QRT-100 are required to be applied. Requirement calculations should be made at an average of approximately 5 SQR Mtrs per Ltr.

3.2 Storage/Stability Twelve (12) months in a full (no air space), airtight container.

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SURFACE PREPARATION THE PROPER *PREPARATION* OF THE SURFACE TO BE COATED IS *VERY IMPORTANT*. ALL SURFACES are to be made SOUND, FIRM, SURFACE-STRONG, LAITANCEFREE, DIRT-FREE, ACID-FREE, SMOOTH prior to applying the product. **Do NOT** apply to sealed or coated timber surfaces.

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MIXING INSTRUCTIONS AND POT LIFE As the product is pre-mixed, there are no applicable instructions, other than to shake the product thoroughly prior to application. Never dilute the product.

Any unused portion should be returned to the container sealed and stored as above.

Allow ambient curing – optimum atmosphere 40 to 60% humidity.

6 APPLICATION PROCEDURE

6.1 Brush, Spray and Roller Applications In most instances, two flooded (2) coats of product will be sufficient. The second coat is applied as soon as possible after the first coat has set or 'touch' dried, do not leave second coating any longer.

ADJOINING AREA / SURFACE PROTECTION

Always cover / tarp all surfaces present within the area of application that may be prone to impact during application. Once hardened the product is extremely difficult to remove and may cause minor etching on some surfaces.

Subject to weather conditions / humidity and the nature of raw timber being treated, an average of 4 hours should be allowed for between coats. Allow a minimum of 12 - 24 hours before Applying the QRT – Top Seal. Allow a minimum of 4 hours before applying further top coats. Always physically check dryness of the Top Seal prior to applying subsequent top coats.

DISCLAIMER:

TEST FIRST *BEFORE* ACTUAL USE. TRIALS ARE ESSENTIAL!

These suggestions, recommendations herewith and other relevant product data for 'the Fire Retardant Treatment' are based on information we believe to be reliable. They are offered in good faith, but as conditions and methods of use of our products are beyond our control, are without guarantee. We recommend that the prospective user, specifier, owner or purchaser determine the complete suitability of this and all our products and suggestions/recommendations for their use and purpose before adopting them on a commercial scale.

PLEASE READ THESE IMPORTANT NOTICES:

6.2 Wash-up Clean application equipment and any unwanted splashes or spillage from surrounding areas with water *immediately*. Water solubility of the liquid reduces rapidly once the product begins to set and then harden. Once hardened the product is *extremely difficult* to remove.

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