

# TWA No Rot Gel Injection Grade

APVMA Registration No 61856

## USES

**NO-ROT GEL Injection Grade (NRG)** is primarily intended for remedial treatment of timber structures where damp conditions can promote fungal decay. Examples are wall studs and bearers around bathrooms or other wet areas and exposed structural and infrastructure timbers such as power poles and bridge piles. It is suitable for the preventative treatment of new work, as well as for arresting the deterioration of timber already suffering considerable fungal decay or even termite attack. Note: For remedial treatments the effectiveness of **NRG** is not only dependent on complying with the directions for use but also on the extent of deterioration or decay. Where remaining structural strength is critical timber replacement may sometimes be the better option.

**NO-ROT GEL Injection Grade** is water based and designed to treat damp wood by dilution. The dilution process requires a moisture content of at least 40-50% in the timber. Below this level dilution is extremely limited. The boron component moves slowly into the surface layers while the other elements diffuse more deeply and rapidly dependent on the species, moisture content and condition of wood.

## COMPATIBILITY & PROPERTIES

### Paints

Treatment with **NO-ROT GEL Injection Grade** will not affect the uses of paint or stains providing that any gel residue is cleaned off and the timber is reasonably dry before painting.

### Corrosion

Appearance: Translucent GEL

Density: 1.4kg/litre

Odour: Little Odour

## APPLICATION

### General

In order to be effective **NO-ROT GEL Injection Grade** needs to be applied at a minimum rate of 7-9 kg/m. High density timbers (eg. Australian

## APPLICATION (Cont.)

hardwoods) generally require a higher loading than lower density timbers (ie -Radiata Pine, Oregon).

### Application Equipment

**No-Rot GEL Injection Grade** is a thick but flowable gel. Therefore a light trowel, stiff brush or cartridge gun are the suitable tools for application. Commercially available grease or dispensing pumps are ideal for larger scale operations ie - pole treatments.

### External Timber treatment

Scrape away all decayed wood, roughen the surface, and apply sufficient **NO-ROT GEL Injection Grade** to produce a desired minimum loading. This is typically a 1-2mm thick coat. If the timber surface is dry then enhance dilution by wetting the surface prior to application. Cover the treated surfaces with plastic wrap (kitchen cling wrap is ideal) to prevent the product drying out and for protection from rain. Absorption will generally take 2-3 weeks.

### Internal Timber Treatment

For structural timbers drill sufficient 12mm holes to produce a desired minimum loading in the affected area. Drill holes as deep as possible without going closer than 25mm to the opposite surface. Fill holes with **NO-ROT GEL Injection Grade** and plug with timber dowel. For pole and pile groundline treatment drill 16mm holes at an angle of 70 to the horizontal commencing 10cm above the groundline directed below the soil and 5cm off the poles centre. For poles up to 30cm in diameter drill four holes to a depth of 45cm. For poles greater than 30cm in diameter drill five holes to a depth of 50cm. Fill holes with **NO-ROT GEL Injection Grade** and plug. Plugs should be inserted carefully to avoid the product being forced back onto the face or into eyes. Refer to worked examples overleaf.



### After treatment

In exposed situations it is strongly recommended that the timber is coated with suitable exterior quality paint or stains such as **TWA Water Repellent**. This will prevent premature leaching and loss of the **NO-ROT GEL Injection Grade's** active Ingredients. In situations where over painting is not possible flashing or other physical protection from water will maximise the benefit of the **NRG** treatment.

### Reapplication

Where it is not possible to arrange additional protection for exposed timbers, reapplication may be required in 2-3 years. For Internal treatment of large timbers such as poles this will more typically be 3-5 years. When protected or sheltered from water and leaching the treatment will last for 5-10 years or possibly longer depending on the site conditions.

## PRECAUTIONS

### Health and Safety

Wood preservatives are toxic and should be handled in accordance with the- M.S.D.S. (Material Safety Data Sheet). Care should be taken to avoid contact with the skin, breathing of any vapour, contact with foodstuffs or oral ingestion. Personal hygiene should be observed at all times. The Use of naked lights and smoking etc must be prohibited.

## SAFETY AND HANDLING

### General

**NO-ROT GEL Injection Grade** is safe to handle and will perform its intended function without hazard provided a few simple precautions are taken.

*A Material Safety data Sheet is available on request if additional information is required.*

### Handling the Product

Gloves and full length clothing is recommended to avoid skin contact with the product. Wash with soap and water immediately if skin contact occurs. Safety glasses or other protection should be used at all times during use. Take care when filling and plugging drill holes to avoid product spraying back into the eyes. In The unlikely event that the product is swallowed induce vomiting and seek immediate medical attention.

## Environmental Considerations

The product is toxic to fish and wildlife. Do not contaminate streams ponds sewers or waterways with this product, used containers or washing's from equipment. Dispose of used containers by burying in a land fill tip. Do not use in situations where run-off will cause contamination of drinking water. Do not use on timbers that are intended as food preparation or storage-age surfaces unless they are sealed with a suitable paint or stain.

## STORAGE AND TRANSPORT

General Store in a secure place out of reach of children and away from heat sources. Store product only in original containers and keep containers firmly closed at all times when not in use.

### Incompatibilities

*Avoid contact or proximity to strong acids and oxidising agents eg. hydrochloric acid. chlorinating agents.*

### Transport

Exempt from dangerous goods classifications.

### PACKAGING

300ml sealant cartridge.

## TECHNICAL SERVICE

Thomson White Australia provides a technical advisory service on all aspects of timber preservation.



**Example:**

To treat a one metre length of 50 x 200mm timber beam affected by dampness and decay. Volume of beam - 0.01 m . Required quantity of **NO-ROT GEL Injection Grade** - 70 to 90 grams. A 12mm diameter drill hole will contain 1.6g of **NO-ROT GEL Injection Grade** per cm of hole length. Therefore drill four holes of 14cm depth evenly spread along the beam ( $90\text{g}/1.6\text{g}/\text{cm} = 56\text{cm}$ . Therefore  $56\text{cm}/4 = 14\text{cm}$ ). As a rule space drill holes 20-30cm apart along the grain and 5-10cm apart across the grain. Ensure the plugs fit the drill holes securely to prevent loss of the preservative or entry of water

**Internal treatment of poles.**

Diagram showing abaxial boring technique developed by CSIRO. and The S.E C.V. for heart rot control. In The case shown above about 670g of **NO-ROT GEL Injection Grade** would be required to fill the holes. Required handling of the preservative is 7-9kg/3m in the pole. Therefore for a pole of 30cm diameter, this will translate to 500-640g of NO-ROT GEL Injection Grade.

