

# PRODUCT DATA SHEET

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## RONSEAL WOOD REPAIR SYSTEM

The Ronseal Wood Repair System is an economical and effective curative, preventative, joinery maintenance system. It consists of three products: Ronseal Wet Rot Wood Hardener and Ronseal High Performance Wood Filler. The Ronseal Wood Repair System offers a unique concept in the treatment of wet rot in external joinery.

### INTRODUCTION

Wet rot is a form of decay that develops from a variety of fungal spores being carried into cracks and open joints by rain and condensation from the inner surfaces of glazing.

Over the last 25 years wet rot in external joinery has become an increasingly major problem. It is estimated that there are currently some 10 million window frames at risk from decay.

The scale of this enormous problem has been attributed to three major causes:

1. The use of sapwood in modern joinery manufacture.
2. Design and manufacturing deficiencies in joinery products, which give rise to water penetration into their open joints.
3. Use of lead-free paints and primers which are less protective against moisture penetration than traditional paint coatings.

These factors have led to external joinery products becoming highly susceptible to wet rot caused by the colonisation of bacteria, moulds and fungi in moist timber. The symptoms of decay are easily recognised, wood becomes fibrous, soft and stringy – paint coatings discolour, crack and blister.

Whilst replacement is possible it is costly and usually very labour intensive.

The Ronseal Wood Repair System provides an effective and economical solution for the REPAIR of wet rot.

### FIELDS OF APPLICATION

The Ronseal Wood Repair System is particularly designed for use on permeable sapwoods and moderately permeable hardwoods that are typically used for exterior joinery in the United Kingdom.

Its use may however be extended to the majority of soft and hardwoods used in external joinery and also to interior situations which have been subject to damage due to the effect of wet rot.

### CURATIVE TREATMENT

Where wet rot is established the Ronseal Wood Repair System should be employed as a two stage repair process to effect a repair and to enable the total replacement of external joinery to be safely avoided.

#### How to Find Wet Rot

Whilst the Ronseal Wood Repair System enable wet rot to be treated and the damage to be repaired, its early detection is recommended.

The following comments will be of assistance in detecting wet rot:

First symptoms of decay are discoloration of paint work and softening of the underlying wood. Later, cross-cracking and dark discoloration may appear. In the latter stages, the wood becomes soft and stringy. This can be confirmed by pushing a screwdriver into the wood. If the wood feels spongy it is a sign of decay on the inside. Areas susceptible to decay are joints, bottom rails and sills.

### HOW TO USE THE RONSEAL WOOD REPAIR SYSTEM

#### Prepare the Surface

Remove all decayed and crumbly wood until fairly sound wood is exposed. This will feel more solid and less fibrous.

Now leave the timber to dry out. It is essential that the timber is reasonably dry before treatment begins. To assist the drying process it may be possible to tape a plastic sheet loosely over the hole, in such a way that rain cannot get in, but evaporation can still take place.

Ensure the remaining wood is free from grease, oil and all old paint and varnish remnants.

For deep holes, insert non-rusting screws into the hole leaving the heads slightly proud to provide greater anchorage.

#### Harden It

Once the decayed wood has been removed the surrounding areas should be strengthened using Ronseal Wet Rot Wood Hardener,

which is applied by brush until the fibres of the wood are completely saturated, but do not apply an excess of Ronseal Wet Rot Wood Hardener so that it forms a surface film. Additional in-depth reinforcement can be effected by pouring the hardener into small pre-drilled holes. This quick drying liquid is a combination of deep penetrating solvents and special resins. When applied to fibrous wood it sets and binds it to form an excellent base for further repair.

Allow to harden for at least 6 hours, preferably overnight. Remove any surface deposit by wire brushing or sanding before filling.

#### Fill It

The next stage is to use Ronseal High Performance Wood Filler to make good the repair. Ronseal High Performance Wood Filler is a high performance, two part, resin compound which on application provides flexibility, workability and durability. Unlike many similar products Ronseal High Performance Wood Filler will not sag, it has superb adhesion properties and also flexes with the natural movement of the wood.

The filler should be mixed with the catalyst from the tube in the following proportions.

Use a 38mm strip of catalyst to a golf ball volume of filler (50g). Mix thoroughly with a spatula or knife using a spreading action, until no streaks remain and the colour is uniform.

Apply the mixed paste immediately to the area to be repaired. A thin coating should be knifed well in, followed by enough paste to fill the repair, leaving slightly proud to allow for rubbing down.

At normal temperatures the mix will have a working time of about 10 minutes. After 20 minutes the mix will be hard enough to carve into shape using a sharp modelling knife. After 30 minutes it is hard enough to be planed, filed or sanded.

Additional amounts of catalyst or high temperatures will accelerate the hardening of Ronseal High Performance Wood Filler. Less catalyst or lower temperatures will have the opposite effect.

The hardened wood filler may be painted with most types of paint to produce a tough, durable repair.

Do NOT put unused mixture back in the tin.

## IMPORTANT NOTES

The Ronseal Wood Repair System is intended for use on joinery which will be finished by painting.

Ronseal Wet Rot Wood Hardener should be applied such that it saturates the fibres of the wood as it is totally absorbed. Remove any film on the surface by wire brushing before the application of Ronseal High Performance Wood Filler.

Ronseal Wet Rot Wood Hardener can soften or damage paint. Do not allow to come into contact with sound paint or plastic materials.

If the repaired joinery is to be stained or varnished pre-mix a matching wood dye with the filler before mixing with the catalyst.

Ronseal High Performance Wood Filler is not recommended as a surface filler. Optimum performance occurs when holes to be filled have a minimum depth of 10 mm.

## CLEANING OF TOOLS

**RONSEAL WET ROT WOOD HARDENER** – Clean brushes with cellulose thinners or methylated spirits.

**RONSEAL HIGH PERFORMANCE WOOD FILLER** – Tools may be cleaned with cellulose thinners before the wood filler has hardened.

Remove as much product from application equipment prior to cleaning.

## STORAGE

Store in a cool, dry, well ventilated place away from heat and sources of ignition. Store upright and carefully reseal partly used containers.

Ronseal Wet Rot Wood Hardener and Ronseal High Performance Wood Filler have a shelf life of at least 2 years.

## COMPOSITION

**RONSEAL WET ROT WOOD HARDENER**  
A highly penetrating liquid resin in solvent, to bind and harden decaying wood fibres.

**RONSEAL HIGH PERFORMANCE WOOD FILLER**  
A resin based filler catalysed with benzoyl peroxide.

## PROPERTIES

**RONSEAL WET ROT WOOD HARDENER**  
Appearance – Clear, colourless liquid.  
Odour – Solvent type, typical ketone.  
Advantages – Penetrates deep into wood to bind and harden decayed fibres.

**RONSEAL HIGH PERFORMANCE WOOD FILLER**  
Odour – Solvent type, typical styrene.  
Advantages – Good adhesion to wood. Can be carved/shaped towards end of curing process and sanded easily. Readily accepts paint.

## HEALTH AND SAFETY

Observe and follow all warnings and instructions for use shown on the packs.

Keep all products out of reach of children.

### RONSEAL WET ROT WOOD HARDENER

Irritating to eyes.

Highly Flammable

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness.

Keep away from sources of ignition-No smoking.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

If swallowed, seek medical advice immediately and show this container or label.

Use only in well ventilated areas.

### RONSEAL HIGH PERFORMANCE WOOD FILLER

Contains STYRENE

Flammable

Harmful by inhalation.

Irritating to eyes and skin.

Do not breathe fumes.

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Use only in a well ventilated area.

If swallowed, seek medical advice immediately and show this container or label.

Wear suitable gloves.

Specific health and safety data sheets are available on request.

## FLAMMABILITY

### RONSEAL WET ROT WOOD HARDENER

Highly flammable liquid. Keep away from sources of ignition – no smoking.

### RONSEAL HIGH PERFORMANCE WOOD FILLER

Flammable product. Catalyst contains an organic peroxide which is an oxidising agent.

## SUPPLY

Obtainable from DIY retailers, paint suppliers and builders merchants.

## SIZES

**RONSEAL WET ROT WOOD HARDENER**  
250 ml and 500 ml resealable containers.

**RONSEAL HIGH PERFORMANCE WOOD FILLER**  
Pack sizes 275g, 550g and 1Kg, in resealable containers.

## DIPOSAL

Certain local authorities have special facilities for the disposal of waste coatings.

Do not empty product into drains or watercourses.

## LIABILITY

Whilst these specifications are based on expert technical knowledge and practical experience, we cannot assume responsibility for any work as the ultimate result depends on factors beyond our direct control. Standard codes of painting practice should be followed.

## INFORMATION AND SERVICE

Our Technical Services Department will be pleased to offer specific guidance or provide any further information you may require.

## DATA SHEETS

Data sheets on other Ronseal products are available on request from our Technical Services Department.

Ronseal Ltd. has been registered to BS EN ISO 9000 1994 (Registered Firm No. FM 1669/1).

Ronseal Ltd. operate an Environmental Management System that complies with the requirements of BS 7750:1994, Certificate No. EMS 35924.

Ronseal Ltd. has achieved Investors in People certification (certificate number 59586).

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