

PRODUCT DATA SHEET

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Thompson's **WATER SEAL**

Thompson's Water Seal is a transparent, solvent based waterproofer that is designed to penetrate dry, porous, exterior substrates to prevent ingress of moisture. Thompson's Water Seal is a unique combination of hydrophobic resins in aliphatic hydrocarbon solvent which are specially blended to produce a very low viscosity product for optimum penetration into the substrate. Thompson's Water Seal is unique in its versatility in waterproofing most porous building material such as brick, concrete, wood, stone, slate, etc, and also natural fabrics such as cotton and canvas.

INTRODUCTION

Thompson's Water Seal is a transparent, low viscosity, solvent based formulation uniquely designed to waterproof a wide range of porous, exterior building materials above ground and free from cracks, as well as natural fabrics and other materials. The substrates most commonly treated are brick, concrete, masonry, slate and wood.

Thompson's Water Seal is based on a unique combination of hydrophobic resins specially blended to produce a low viscosity formulation, which penetrates deep below the surface of porous materials carrying waterproofing resins into the pores of the substrate. The resins deposited when the solvent has evaporated never dry out and remain flexible. This is an important feature for exterior substrates where severe weathering causes continual shrinking and swelling, which can result in surface deterioration.

Thompson's Water Seal does not form a coating on the surface of the wall. It does however protect the pores beneath, to provide a water repellent barrier which, although allowing the substrate to breathe, prevents moisture from penetrating.

Thompson's Water Seal becomes an integral part of the substrate being treated, and, as such, is not subject to surface abrasion, erosion or degradation by ultraviolet light. It therefore retains its effectiveness for longer than non-penetrating surface treatments. A surface treated with Thompson's Water Seal is thus modified so that water no longer "wets" the surface, but is repelled and "beads up" instead.

A key benefit of Thompson's Water Seal is its versatility in waterproofing virtually all porous building materials, such as

brick, concrete, stone, slate, stucco and wooden products. It can also be used to waterproof a range of natural fabrics and other materials, such as cotton, canvas (tarpaulins) and leather.

Additionally, Thompson's Water Seal helps reduce spalling and efflorescence on building materials.

Thompson's Water Seal is best applied as a two coat application, using the stated coverage guidelines. When Thompson's Water Seal is applied to wooden substrates a two coat procedure is essential. In most cases the application of Thompson's Water Seal will have little or no visible effect on the appearance of the substrate and can enhance its appearance. However building materials vary widely both in type and composition, and the possibility of a colour change cannot be discounted either initially or shortly after application, owing to reaction with certain components in the substrate.

Thompson's Water Seal may also be used as a curing agent for concrete. Refer to 'APPLICATION PROCEDURE' for specific guidance.

COMPOSITION

Thompson's Water Seal is a unique combination of hydrocarbon resins and polyoxyaluminium distearate in aliphatic hydrocarbon (mineral) spirit.

The ingredients in Thompson's Water Seal are specially blended to provide a low viscosity formulation to optimise penetration of the product into a given substrate, to form an effective barrier to water with usually minimal colour change to the surface.

PROPERTIES

Appearance - Clear, almost colourless low viscosity liquid.

Odour - Typical of mineral spirit.

Water Content - 350 ppm max.

VOC Content- Very High >50%.

FIELDS OF APPLICATION

Thompson's Water Seal is recommended for waterproofing most porous building materials, for example: brick, concrete, stone, slate, stucco and wooden products. It will also waterproof natural fabrics and similar materials, including cotton, canvas and leather.

Other Applications

Concrete Curing and Hardening

Thompson's Water Seal is an effective curing and hardening agent in the application of new concrete, thus reducing the time taken for concrete to achieve maximum strength and prevent dusting during its service life. In general Thompson's Water Seal is applied to the surface of concrete.

Concrete treated with Thompson's Water Seal has been found to be more than 250% stronger than untreated concrete and has a more abrasion resistant and dust proof surface.

APPLICATION PROCEDURE

General Conditions

Thompson's Water Seal should only be applied to clean, dry surfaces that are sufficiently porous to allow full penetration of the product. Ensure that sufficient Thompson's Water Seal is applied to mortar joints, in particular the junction between mortar and bricks or blocks. Thompson's Water Seal should not be applied to recently sealed

surfaces and any film forming coatings, for example, paint should be removed or allowed to weather for at least two years.

Any surface discoloration should be treated prior to the application of Thompson's Water Seal or marks, stains or blemishes in the substrate will show through after treatment.

Ensure that surface and air temperature are above 5°C.

General Substrate

Ensure that the substrate is clean, dry and free from oil, grease and any other contamination such as moulds and fungal growth. Remove oily deposits by washing surfaces with white spirit. Any fungal deposits should be treated with either a proprietary fungicide, such as Thompson's Mould & Moss Killer, or diluted household bleach (1 part bleach : 4 parts water). Treated areas should be rinsed thoroughly with water. Allow to dry for at least two days.

As Thompson's Water Seal will not fill cracks or gaps carry out any necessary repair work before its application.

Special Substrates

Concrete Curing

Mixed concrete should be laid by standard procedures and tamped down leaving an even but fairly rough surface.

In cool, calm weather conditions the concrete surface should be smoothed down with a float to produce a satisfactory finish. A spray coat of Thompson's Water Seal should then be applied to the entire surface whilst the concrete is still wet. The concrete should then be allowed to dry.

When hot/windy weather conditions prevail a two stage procedure involving the use of Thompson's Water Seal is recommended. After the concrete has been tamped down to provide a rough but fairly even finish a spray coating of Thompson's Water Seal is applied and trowelled in the surface which is then smoothed down. This helps prevent cracking and checking (crazing) of the concrete. It also penetrates deep into the surface and helps control the evaporation rate of water. A second spray coat of Thompson's Water Seal is then applied and the concrete allowed to dry.

When used as a concrete hardening agent Thompson's Water Seal should be applied at a rate of 1 litre per 5 square metres.

Application

Thompson's Water Seal may be applied by brush, roller, low pressure spray (under 200 psi) or poured on and allowed to settle naturally into the surface.

On horizontal surfaces, leave Thompson's Water Seal for 15 minutes then redistribute any unabsorbed material to dry areas. When treating

vertical surfaces start at the bottom and work upwards.

When spray application is used specific recommendations of equipment manufacturers or suppliers should always be observed.

In general, a two coat application is specified in all cases using the recommended coverage guidelines.

COVERAGE

Coverage rate will vary with the absorbency of the substrate. The coverage guidelines given below are the minimum recommended quantities required to give adequate waterproofing protection based on practical experience. Older substrates in particular may require additional applications of Thompson's Water Seal to ensure full repellency. A site trial is recommended.

Surface	First Coat m ² /litre	Second Coat m ² /litre
Brick	3.5	7.0
Concrete	5.0	10.0
Light Concrete Block	1.0	2.0
Clay/Quarry Tile	5.0	10.0
Rendering	5.0	7.0
Wood (varies with type of wood and any applied finish)	2.5 - 5.0	3.5 - 7.5
Weatherboard	2.5	3.5

DRYING TIME

Thompson's Water Seal normally dries within 24 - 48 hours. Drying time will vary with absorbency of substrate and prevailing weather conditions. On masonry the second coat may be applied as soon as the first coat has soaked into the surface. On other substrates allow at least 24 hours between coats.

CLEANING OF TOOLS

All equipment should be cleaned immediately after use with white spirit.

Remove as much product as possible from equipment before washing.

MAINTENANCE

Surfaces treated with Thompson's Water Seal maintain their water repellent properties long after the initial "beading up" of water no longer occurs. To maintain this effect re-treat as required.

To maintain water repellency periodic re-treatment will be required. The frequency of re-treatment will vary with the type, nature and exposure of treated surfaces as well as prevailing weather conditions. Maintenance coatings may be necessary between two and ten years after initial application of Thompson's Water Seal.

REPAIR

Damaged areas may be re-waterproofed by local applications of Thompson's Water Seal. Clean down and allow surfaces to dry before application of Thompson's Water Seal.

IMPORTANT NOTES

FOR EXTERIOR USE ONLY.

Thompson's Water Seal should only be applied to dry, porous substrates, above the damp-proof course.

Thompson's Water Seal is not recommended for application to surfaces below ground level for where a hydrostatic pressure greater than 1.4 bar is likely.

Do not apply Thompson's Water Seal to surfaces with cracks greater than 0.15mm (i.e. greater than "hair-line" cracks) surface width without previously re-pointing. Rectify any construction faults before application of Thompson's Water Seal.

Do not apply Thompson's Water Seal to surfaces below the damp-proof course of buildings.

Thompson's Water Seal is not recommended for use on freshly painted surface but may be applied to weathered surfaces which are porous enough to allow penetration.

Do not apply Thompson's Water Seal to plastic type materials, asphalt or synthetic fabrics.

Ensure any products used for the pre-treatment of surfaces, e.g. mould and fungal treatments, bleaches, etc, are thoroughly rinsed off and surfaces allowed to dry before application of Thompson's Water Seal. Avoid the use of products which additionally contain detergents if at all possible.

Protect adjacent areas such as decorative coatings, plastic, glass and vegetation when applying Thompson's Water Seal. Clean up any spillages etc. with white spirit whilst wet.

Thompson's Water Seal may cause some substrates to discolour or darken or certain coloured plasters and sandstone to "bleed". Always pre-test a representative, inconspicuous area before general treatment.

Do not dilute Thompson's Water Seal.

Thompson's Water Seal does not contain ultraviolet light filters and therefore wood treated with Thompson's Water Seal will discolour unless additionally protected with a product such as Ronseal Quick Drying Woodstain.

Do not use on Plywood.

Do not use on roofs. Thompson's Roof Seal or Isoflex High performance Liquid Rubber is specifically recommended for this purpose.

Thompson's Water Seal may darken certain fabrics.

Thompson's Water Seal can be overpainted. Allow at least 3 days before overcoating with an oil or solvent based paint, and at least 30 days before painting with water based paints or woodstains. A site trial is recommended to ensure adequate adhesion.

STORAGE

Store in a cool, dry, well ventilated place away from heat and sources of ignition-no smoking.

Carefully reseal partly used containers.

To avoid the risk of spillage always store and transport in a secure and upright position.

Protect from frost. Store above 5°C.

The shelf life of Thompson's Water Seal in airtight containers is at least two years.

HEALTH AND SAFETY

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

Keep out of reach of children.

Avoid contact with skin and eyes.

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

After contact with skin, wash immediately with plenty of soap and water or a proprietary skin cleanser. DO NOT USE SOLVENTS OR THINNERS/WHITE SPIRIT.

Repeated exposure may cause skin dryness or cracking.

Ensure maximum ventilation during application and drying.

When applying in confined spaces, wear a face mask which is designed to prevent inhalation of solvent vapours.

When spraying, do not breathe spray, wear suitable respiratory equipment.

Specific health and safety data sheets are available on request.

DISPOSAL

Do not empty product into drains or water courses.

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

Remove as much product as possible from application equipment before washing.

FLAMMABILITY

Flash point 48°C.
Flammable product.

Keep away from sources of ignition - no smoking.

SUPPLY

Obtainable from DIY outlets, paint suppliers and builders' merchants.

SIZES

Available in 1,2.5, 5, 10 and 25 litre resealable containers.

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)

©RONSEAL LTD.,

**Thornclyffe Park
Chapelton
Sheffield
S35 2YP**

**Tel: +44 (0114) 240 9469 (Technical Services)
+44 (0114) 246 7171 (Main Switchboard)
Fax: +44 (0114) 245 5629
E. Mail: enquiry@ronseal.co.uk
Website: www.ronseal.co.uk**

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