



Product Data Sheet

BOND 'N' SEAL

Blue Circle Southern Bond'n'Seal is a formulated acrylic admixture used both as a primer for wet-to-dry cementitious systems and as an inclusion in cement based mixes.

Features

- **High Bond Strength** - provides excellent adhesion when used as a bonding agent for, or as an admixture in cement based mixes.
- **Resilient** - When used as an admixture, an acrylic lattice is formed throughout the mix, greatly reducing brittleness and enhancing resistance to damage by impact.
- **Enhanced Chemical Resistance** - The continuous resin lattice within the render matrix greatly reduces ingress of chloride ions and other deleterious materials.
- **Water Resistance** - Combines low permeability with resin stability in continuously wet conditions when used in cement based mixes.
- **Versatile** - Easy to use, with positive bond to a wide range of a materials such as brick, stone, concrete, timber and most metals.
- **Product Stability** - Especially formulated for maximum performance under the alkaline conditions of cement mixes and unlike P.V.A systems, the bond film will not hydrolyse under wet conditions.
- **Delayed Bonding** - When used as a bonding agent, subsequent toppings may be applied immediately or up to 7 days later.
- Eliminates the need for water curing.

Suggested Uses

As an additive to cement based products:

- Watertight renders for use in water retaining structures such as pools, fountains, tanks, etc.
- Repair mortars in sewerage and water treatment plants.
- Tile bedding mortars.
- Repairs to spalled and damaged concrete.

As a structural bonding agent:

- New-to-old concreting.
- Renders to brick or concrete wall.
- Sealing walls, bathrooms and kitchen ceilings before painting.

Addition Rate:

- Dilute 1 part Bond'n'Seal with 6 parts of clean potable water to use as a cement mortar or concrete additive.

Preparation

Concrete: Concrete should be of strength consistent with service requirements. The surface must be cleaned of any dust, oils, cement laitance etc. Blast cleaning may be used to expose clean firmly-bound aggregate. Mortar smears and/or lumps should be removed from brickwork.

Steel: An abrasive blast clean or grinding to uniform light grey colour free from all rust and mill scale.

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Painted Surfaces: Quality oil based paints in sound condition may be rendered provided any gloss finish has been dulled using sandpaper to provide a better **keying effect** for adhesion to take place. It is always advisable to trial test for adhesion before work commences.

Plaster Surfaces: Remove all flaking paint and repair any surface damaged sections. For restoration of body plaster, drill fine holes and inject neat **Bond'n'Seal** using a veterinary needle.

Repair: Acid etching is not recommended as a surface preparation due to the potential corrosion of steel reinforcement. Use abrasive blast or mechanical scabbling and thoroughly remove all dust and loose materials.

Repair Mortars

Diluted **Bond'n'Seal** may be used as a mixing liquid, in place of water, in all cement mixtures. Other admixtures should not be included unless trials indicate satisfactory performances.

Curing

Repair Mortars using **Bond'n'Seal** should not be water cured. Excessive use of water can wash out acrylic emulsions and weaken the surface. If curing is required, the surface should be sprayed with **Bond'n'Seal** diluted with 1 to 2 parts of clean potable water.

Coverage (yield)

On smooth dense surfaces apply **Bond'n'Seal** diluted with equal parts of water in an even continuous film using brush, roller or airless spray gun - Coverage will be approx. 6m²/Litre. On rough absorbent surfaces or vertical surfaces, add to the diluted **Bond'n'Seal** a small quantity of Portland cement to thicken the mixture. Brush well into rough surfaces to ensure continuous coating.

Avoid ponding - Coverage will be approx. 3-4m²/litre.

As a concrete/mortar additive, add 8 capfuls per 1 litre of mixing water.

Availability

Bond'n'Seal is available in 4 and 20 litre containers.

Cleanup & Storage

Clean all tools and equipment with soapy water promptly after use.

Store **Bond'n'Seal** in a cool place and ensure containers are satisfactorily sealed. The "shelf life" of **Bond'n'Seal** is well in excess of 2 years. Always shake well prior to use.

Safe Handling

Use personal protection against the liquid contacting the skin such as impervious PVC gloves. Wash affected area with tepid soapy water promptly.

If swallowed wash mouth and lips with water. Do not induce vomiting. Give water or milk to drink and seek medical attention.

For further safety information consult the Blue Circle Southern Material Safety Data Sheet for the product.



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Note: The information stated herein and all advice given should be taken as a guide only. Both are given in good faith and are to the best of our knowledge true and accurate and are intended to give a fair description of the product and its capabilities under specific test conditions. No guarantee of the accuracy or completeness of the information is made and persons receiving the information should make their own tests to determine suitability thereof in all respects for their particular purpose.