

Acrylic Bonding Agent

DESCRIPTION



TamCrete Bond & Seal is a formulated acrylic admixture used both as a primer for wet-to-dry cementitious systems and as an emulsion in mixtures.

KEY BENEFITS

- > High bond strength - provides excellent adhesion when used as a bonding agent 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 impact damage.
- > Enhanced chemical resistance - the cementitious 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 materials such as brick, stone, concrete, timber and most metals.
- > Product stability - specially formulated for maximum performance under alkaline conditions of cement mixes. 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.

TYPICAL APPLICATIONS

- > Repairs mortar in sewage and water treatment plants
- > Repairs to spalled and damaged concrete
- > As a structural bonding agent:
 - New to old concrete
 - Renders to brick or concrete walls
 - Sealing walls, bathrooms and kitchen ceilings before painting

APPLICATION GUIDELINES

Addition Rate

Dilute 1 part TamCrete Bond & Seal with 2 parts of clean potable water to use as a cement mortar or concrete additive.

Yield

On smooth dense surfaces apply TamCrete Bond & Seal diluted with equal parts of water in an even continuous film using brush, roller or airless spray gun. Coverage will be approximately 6m²/kg.

On rough absorbent surfaces or vertical surfaces, add to the diluted TamCrete Bond & Seal, a small quantity of cement to thicken the mixture. Brush well into rough surfaces to ensure continuous coating. Avoid ponding. Coverage will be approximately 3 – 4 m²/kg.

Preparation

Concrete: Concrete strength should be consistent with service requirements. The surface must be clean of any dust, oils, and 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 a uniform light grey colour, free from all rust and mill scale.

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 TamCrete Bond & Seal using an Injection Syringe. This method may also be used to repair de-bonded sections.

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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 (1:2) TamCrete Bond & 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 performance.

Priming

For best results when using as a primer, mix with cement to form a slurry and apply to pre-dampened surfaces.

Curing

Repair mortars using TamCrete Bond & Seal should not be water cured. Excessive use of water can wash out acrylic emulsions and weaken the surface.

Note: If curing is required, the surface should be sprayed with TamCrete Bond & Seal diluted with 1 to 2 parts of clean potable water.

Subsequent Finishes

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

PACKAGING

TamCrete Bond & Seal is supplied in 5 kg and 20 kg drums. Packaging size may vary subject to local regulations and requirements.

STORAGE

TamCrete Bond & Seal should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamCrete Bond & Seal should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.