



BREAK 'N CURE PANEL RELEASE

DESCRIPTION:

BREAK 'N CURE is the next generation cure and tilt-up bondbreaker. BREAK 'N CURE does not contain any paraffin wax or hydrocarbon resins and does not depend on a physical barrier deposited on top of the casting slab to prevent bonding.

BREAK 'N CURE consists of a special formulation of chemically reactive organic compounds in water and special solvent-based system which react with free lime, the byproduct of the cement hydration reaction in all fresh concrete surfaces.

The reaction products are gels which, in combination with other selected compounds, seal concrete surface, ensuring the moisture entry or egress is restricted, ensuring good water retention in the concrete, during the curing process, whilst minimising concrete surface cracking and crazing.

Properly applied, BREAK 'N CURE prevents the bonding of tilt wall panels to casting slab floor surfaces.

Used only for Tilt-Slab fabrication, apply on freshly laid concrete.

Provides improved resistance to the "osmotic effect" by restricting the natural tendency for water to migrate from freshly placed panel concrete through the bondbreaker film and into the less moist casting slab. Reducing the "osmotic effect" greatly improves panel concrete surface appearance resulting in a smooth, uniform surface profile, colour and appearance. Achieves exceptional wall panel surface appearance.

Leaves no residue or resulting staining on wall panel or casting slab floor surfaces when properly applied.

Achieves a crisp, positive release that minimizes panel surface defects and reduces panel resurfacing/patching costs.

BREAK 'N CURE is not classed as a flammable dangerous good, reducing transport and storage costs.

ADVANTAGES OF USE:

- Water resistant film formed
- Utilises low VOC formula
- Complies to GREEN STAR- OFFICE DESIGN V3 IEQ-13
- Economical, ease of application reduces labour cost
- Replaces solvent born bondbreakers
- Inherently safer in handling & application
- Enables concrete to hydrate more efficiently

- Reduces water loss to casting slab reducing damage to faces & potential sticking
- Increases concrete strength and dusting resistance
- Reduces surface shrinkage and cracking
- Odourless when dry

DIRECTIONS FOR USE:

1. BREAK 'N CURE in the drum and sprayer thoroughly before use.
2. Form up casting bed and remove all dust, saw cut residue, standing water and other contaminants from the casting surface.
3. Check the concrete slab is not too dry as this will "soak up" too much bondbreaker. If so, lightly mist with water then remove any excess ponded water, the slab surface may remain damp.
4. Apply first BREAK 'N CURE coat with a low-pressure spray to the casting surface and allow it to dry.
5. Apply second coat of BREAK 'N CURE at right angles (90°) to the first and allow it to dry.
6. Conduct a "bead test" by sprinkling droplets of water onto the bondbreaker at different places on the casting bed. As a guide there is enough bondbreaker if the droplets form beads on the surface.
7. Check the bondbreaker coating feels like a "dry piece of soap".
8. Apply additional coats of BREAK 'N CURE until the "bead test" works and a "soap-like" coating is felt all over the casting bed.
9. In cold weather, applying multiple light coats will speed up the overall drying time.

COVERAGE GUIDE:

CURING AGENT - 5m² per litre

BONDBREAKER - 8 to 15m² per litre per application.

*Coverage rates are listed as a guide only and pre-testing panels before final production is always recommended.

Effective concrete curing coverage rates will be listed at 5m²/L in-line with Australian standards, BREAK 'N CURE is considered a curing aid equivalent or greater to water ponding. BREAK 'N CURE is not certified as AS3799.



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DESIGN & SPECIFICATION DETAIL

When used as an effective curing agent the coating should be applied (undiluted) at the specified rate of 5m/L (0.2L/m²) to achieve a total dry film thickness to achieve the correct curing properties.

BREAK 'N CURE must be applied on to the substrate at the coverage rates recommended as a minimum specification.

If specified at higher rates, then allowance for removal of resulting film must be made allowed for before additional works.

LIMITATIONS:

Not recommended for use as a bondbreaker on broom finished or rough finished concrete surfaces.

Not recommended for application over any other manufacturers inorganic silicate-based floor sealer, hardener or organic resin-based curing, sealing or combination cure and seal product. Failure to follow this recommendation can result in panel surface defects or panel sticking.

If a delay of more than 10 days occurs between the final bondbreaker application coat and panel concrete placement, it will be necessary to check for a sufficient bondbreaker film on the casting slab. If the bondbreaker film is insufficient, the bondbreaker must be reapplied as necessary before concrete placement.

Carefully inspect all casting slab surfaces prior to panel concrete placement to ensure an adequate film of bondbreaker is uniformly present.

Not recommended for application over or in conjunction with any other manufacturer's tilt-up bondbreaker.

Not recommended for application in the rain or if rain is anticipated within 12 hours of application. Surfaces exposed to rain or running water within this period will require re-application.

Not recommended for bondbreaker application to casting slab surfaces previously cured with polyethylene or curing blankets without first removing all salt deposits. Failure to remove all salt deposits can result in panel surface blemishes or defects.

EQUIPMENT CLEAN UP:

BREAK 'N CURE should be removed from tools and equipment with water while still wet or a solvent-based degreaser if the dry film has formed.

TILT PANEL CLEANING:

To clean panel surfaces, pretreat the areas to be cleaned with COLORO Panel Wash, rinse with water using a minimum 4,000 psi power washer. Determine adequacy of the surface preparation of panels and casting slabs with appropriate site test to verify acceptable adhesion, appearance and performance of paints, coatings, adhesives, sealers, sealants, grouts, etc. prior to application.

FIRST AID, SAFETY & STORAGE:

Store in cool, dry conditions, away from sources of heat and naked flames, in original, unopened packs. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

Refer to material safety data sheet for further information.

PACKS:

20L, 200L, 1000L

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This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Chemical House does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether in accordance with any advice, specification, recommendation, or information given by it.