



# PRIME & CURE

## DESCRIPTION

PRIME & CURE - WATERBASED CURING COMPOUND is a Class D, Type 1 curing compound for use on new concrete that facilitates maximum moisture retention through 28 days curing period to maximise concrete strength & durability.

PRIME & CURE can also be generally classed as Class Z, Type 1 it comes back to interpretation of definitions.

The polymer used is a synthetic acrylic and can fit in both class descriptions.

PRIME & CURE, cures, seals, and hardens the surface of new concrete, providing increased strength and durability and improved resistance to chemicals and surface dusting, when applied by the correct method and at the recommended application rate.

The dried film, which is not particularly obvious and has minimal darkening on exposure to sunlight.

PRIME & CURE is based on an acrylic resin combined with other additives, once cured is a flexible acrylic resin with advanced adhesion and moisture barrier properties.

## USE

Mainly used on freshly laid concrete floors, car parks, warehouses, bridge ramparts etc.

Also used for curing vertical concrete areas immediately after the stripping of forms to assist strength development, improve chemical resistance, etc.

## ADVANTAGES OF USE

- Environmentally acceptable.
- Low Solvent - water based (not classed as Hazardous or Dangerous) Low VOC
- Complies with GREEN STAR- OFFICE DESIGN V3 IEQ-13 (<200g/L TVOC)
- Low odour, no ventilation requirement.
- No stringent safety requirements.
- Advanced adhesion properties.
- Fast dry.

- Efficient curing of the concrete assists the Development of strength, abrasion resistance and durability.
- Reduces the likelihood of cracking or dusting at the surface.
- Easy to use, eliminates messy water curing or polythene film.

## STANDARDS COMPLIANCE

PRIME & CURE conforms to AS3799 liquid membrane forming curing compounds for concrete, having a moisture retention efficiency that exceeds Australian Standards.

Test certificates are available on request.

PRIME & CURE conforms to R.M.S. specification R80 (as Class Z), R82, R83, R84. & is listed on TMR as an approved product.

## DESIGN & SPECIFICATION DETAIL

The coating should be applied in a single coat to achieve the required dry film thickness sufficient to achieve the correct curing properties, PRIME & CURE must be applied on to the substrate at the coverage rates recommended.

## CONCRETE CURING COMPOUND

All designated areas are to have a liquid curing compound applied to the freshly finished concrete.

The curing compound will be based on an acrylic resin, comply with AS3799.

The curing compound is to be applied in accordance with the manufacturer's application instructions.

PRIME & CURE should be evenly sprayed over the freshly laid concrete as soon as possible after final trowelling.

Ideally PRIME & CURE should be applied as soon as the surface bleed water has evaporated.

## CHEMICAL HOUSE

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## PRIME & CURE

### LIMITATIONS

Certain adhesives for vinyl tiles, or other types of resilient flooring, and paints of an approved grade may be applied to concrete coated with PRIME & CURE.

It is important however that the concrete should be thoroughly cured prior to such application, and that a test area has been completed for approval.

Cement based renders and toppings should not be applied over PRIME & CURE.

First remove PRIME & CURE by sand blasting or scabbling to provide a mechanical key.

The life of PRIME & CURE will depend on traffic conditions to which it has been subjected; therefore, apply reviving coats as required.

The bond of PRIME & CURE is likely to fail if the product is applied to concrete or masonry substrates subject to back water pressure, and/or where extraneous salt particles are carried from the substrate to the interface by vapour or condensation.

\* Chemicals to which PRIME & CURE is not resistant include oxidising agents, such as sodium hypochlorite, bromine water and sulphur dioxide.

PRIME & CURE is also not resistant to concentrated acetic acid, concentrated phosphoric acid, concentrated nitric acid, chromic acid, concentrated ammonia, animal fats and oils, synthetic oils such as brake fluid and some transmission fluids, vegetable oils and higher fatty acids such as oleic acid plus the following solvent types: aromatic hydrocarbons, esters, ketones and chlorinated solvents.

### DIRECTIONS

Mix prior to use and ensure PRIME & CURE is consistent.

PRIME & CURE contains no fugitive dye so care should be exercised to ensure a uniform application is achieved.

Calculate area to be treated, pre-measure the volume of PRIME & CURE.

Apply one full coat forming a continuous film at a rate of 5m<sup>2</sup>/L. wet on wet, as required to obtain the necessary application rate or use the volume. Ensure there are no misses.

### APPLICATION EQUIPMENT

Low pressure spray (preferred) or soft 10-15mm nap roller.

### COVERAGE

5m<sup>2</sup>/L ( 0.2litres/m<sup>2</sup> ) using a spray applicator – do not brush.

### CLEAN UP

Water when wet. Xylene, or EASI-ORANGE (allows re-emulsification with water) when dry.

### DRYING TIME

Approximately 11/2-2hours at 25C.

After this time, PRIME & CURE will be shower resistant and will resist re-emulsification and consequential removal.

This feature will help diminish the potential for wash away by rain within 8 hours of application.

### SAFETY

When applying always use suitable cartridge masks, avoid skin, and eye contact.

Refer to Material Safety Data Sheet for detailed information.

### PACKS

20L, 200L, 1000L.

### PRIME & CURE- PDS July 2024

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 way 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.

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