PRODUCT DATA SHEET

SURFACE CURE A

DESCRIPTION

SURFACE-CURE A- 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.

SURFACE CURE A can also be generally classed as a 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.

SURFACE-CURE A, 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.

SURFACE-CURE A is based on an acrylic resin combined with other additives.

USE

Mainly used on freshly laid concrete floors, carparks, 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.
- 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

SURFACE CURE A conforms to AS 3799-1998: liquid membrane forming curing compounds for concrete, having a Moisture Retention Efficiency of 94%. Test certificates are available on request.

SURFACE CURE A 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, SURFACE CURE A must be applied on to the substrate at the coverage rates recommended.

CHEMICAL HOUSE
Headquarters
9 Production Avenue, Molendinar
Queensland, 4214 Australia
Ph: +61 7 5594 0344
www.chemicalhouse.com.au

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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.

Such a material is SURFACE CURE A as supplied by Chemical House.

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

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

Ideally SURFACE CURE A should be applied as soon as the surface bleed water has evaporated.

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 SURFACE CURE A.

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 SURFACE CURE A.

First remove the SURFACE CURE A by sand blasting or scabbling to provide a mechanical key.

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

The bond of SURFACE CURE A 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 SURFACE CURE A is not resistant include oxidising agents, such as sodium hypochlorite, bromine water and sulphur dioxide.

SURFACE CURE A 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.

A clear appearance with slight yellow cast is obtained.

SURFACE CURE A may yellow when subject to ultra-violet radiation from sunlight.

USE

Mix prior to use. Ensure SURFACE-CURE A is homogeneous. SURFACE-CURE A 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 SURFACE-CURE A.

Apply one full coat forming a continuous film at a rate of 5m2/L. wet on wet, as required to obtain the necessary application rate or use the volume. Ensure there are no misses.

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APPLICATION EQUIPMENT

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

COVERAGE

5m2/L (0.2litres/m2) 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, the SURFACE-CURE A 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.

STORAGE

Store in cool, dry conditions, away from sources of heat and naked flames, in original, unopened packs.

If stored at high temperatures, low temperatures (below 5°C and/or high humidity conditions the shelf life may be reduced.

Emulsions can 'break' or separate at extremes of temperature, reducing the efficacy of the resultant coating.

SHELF-LIFE

SURFACE-CURE A has a shelf life of approximately 12 months if stored in its original sealed container at moderate temperatures.

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.

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