



SURFACE CURE BE40

BITUMEN EMULSION CURING COMPOUND (Type 3, Class Z)

Bitumen based curing compound conforming to AS 3799 and Hot Pour Asphalt suitable and is also suitable as a primer coat for asphalt and bitumen emulsion overlays.

DESCRIPTION

SURFACE CURE BE-40 is a liquid applied curing compound which consists of a processed blend of bitumen and petroleum resin-based hydrocarbons.

When applied at the recommended application rate SURFACE CURE BE -40 minimizes moisture loss in freshly laid concrete thus improving the curing of the concrete providing increased strength and durability and improved resistance to surface dusting.

USE

Mainly used on freshly laid concrete bridge decks, ramparts (vertical or overhead) and feeder ramps.

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

ADVANTAGES OF USE

- Rapid film formation time
- Water resistant film formed
- Utilises low VOC formula
- Meets Green Star Rating
- Economical, ease of application reduces labour cost
- Eliminates the need for damp hessian, sand, or polythene
- Enables concrete to hydrate more efficiently
- Increases concrete strength and dusting resistance
- Reduces surface shrinkage and cracking
- Odourless when dry
- Primer compatible
- Suitable for sub-base de-bonding layer

STANDARDS COMPLIANCE

SURFACE CURE BE-40 conforms to AS 3799-1998:

Liquid membrane forming curing compounds for concrete, having a Moisture Retention Efficiency of 92%.

Test certificates are available on request.

SURFACE CURE BE-40 conforms to TMR (Qld) MRTS 40 Table 9.1.1.1-A & B and MTRS 39 table 9.1.1 ; RMS (NSW) refer Table B80.18 Specification R80 (Revision July 2013 R82 table B82.7, R83, Table R83.5 (Revision Nov2013).

DESIGN & SPECIFICATION DETAIL

The coating should be applied in a single coat to achieve a total dry film thickness of not less than 80 microns.

To achieve the correct curing properties, SURFACE CURE BE-40 must be applied on to the substrate at the coverage rates recommended, (5m²/L or 0.2L/m²)

CONCRETE CURING COMPOUND

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

The curing compound will be a bitumen emulsion, complying with AS3799 and have a bitumen solids content of greater than 40%. (refer R83 RMS).

Such a material is SURFACE CURE BE-40 is supplied by Chemical House.

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

DIRECTIONS

SURFACE CURE BE-40 should be evenly sprayed over the freshly laid concrete as soon as possible after final troweling.

Ideally SURFACE CURE BE-40 should be applied as soon as the surface bleed water has evaporated.

Where SURFACE CURE BE-40 is used as a cure/sealer for overhead application, then application using a suitable power roller is suggested, to reduce over-spray fallout.

CHEMICAL HOUSE

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LIMITATIONS

SURFACE CURE BE-40 is specifically designed as a cure-primer for bituminous coatings or use as a water impermeable membrane.

Certain adhesives for vinyl tiles, or other types of resilient flooring may be applied to concrete coated with SURFACE CURE BE-40.

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 BE-40.

First remove the SURFACE CURE BE-40 by stripping with STRIPSEAL, EASI-ORANGE or sand blasting or scabbling to provide a mechanical key.

The life of SURFACE CURE BE-40 will depend on the weather exposure conditions to which it has been subjected; the coating is NOT designed to break down except with extended weathering.

The bond of SURFACE CURE BE-40 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.

A black appearance is obtained. SURFACE CURE BE-40 will oxidize and breakdown when subject to ultra-violet radiation from sunlight over a number of years.

COVERAGE

5m² per litre

CLEAN UP

SURFACE CURE BE-40 should be removed from tools and equipment with water if still wet and Solvent 100, StripSeal or Easi-Orange which are formulated strippers from Chemical House if the dry film has formed.

STORAGE

SURFACE CURE BE-40 due to its nature has a longer shelf life than its partner 60C and can be stored for an extended period. A 6-month shelf life is considered the maximum.

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 will be reduced.

PACKS

200L, 1,000L.

SURFACE CURE BE40 - PDS MARCH 2021

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.

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