

Techno cure 900

High quality, resin based, concrete curing compound

Uses

Provides a high efficiency, spray-applied curing compound, to retain water within concrete for effective curing. It is suitable for all common forms of concreting, and is of particular benefit for large concrete areas, including:

- Car park decks and ramps.
- Airport runways and hard standing areas.
- Concrete tanks and reservoirs.
- Warehouses and unloading bays.
- Floor slabs and columns.
- Piers, jetties and harbours.

Advantages

- Enhanced concrete durability - improved & controlled curing efficiency of 90% results in better cement hydration.
- Lower add-on cost due to much improved surface quality, minimizing potential for shrinkage and crack repairs.
- Cost effective - specifically formulated for low cost spray application.
- Environmentally friendly - non hazardous resin, can be discharged directly on site, water can be used for cleaning.
- Versatile - suitable for confined spaces, available in white-pigmented version for simple, visual application check.
- White-pigmented version reduces solar temperature gain.

Standards compliance

Classified to ASTM C309: Type 1 or 2 Classes A and B
BS 7542: Minimum curing efficiency of 90%.
Complies with BS 8110; Part 1, clause 6.6.3(c)

Description

Techno cure 900 is a low viscosity, resin emulsion, curing compound. It is supplied as a single component liquid (white or clear) which is ready for immediate on-site application. Techno cure 900 is applied, by spray, to fresh cementations surfaces at a coverage rate of 3.5 to 5.0 m² per liter. It creates a continuous film-forming, moisture barrier; which ensures optimum cement hydration, improved concrete durability and reduced shrinkage.

Modern Technologies for Construction Chemicals

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Specification

The high efficiency, curing compound shall be Techno cure 900, a low viscosity, resin emulsion supplied by M.T.C. The curing compound shall have a curing efficiency of at least 90% in accordance with BS7542; shall comply with BS 8110; Part 1, clause 6.6.3(c)

Properties

Form : Liquid - white or clear

Curing efficiency : 90% (BS 7542)

Instructions for use

Pre-application

Techno cure 900 should be gently stirred immediately before use, to ensure even dispersal of the pigment. Application should not begin until the concrete is free from surface water, and should not commence at all if bleed water is apparent on the concrete surface.

Application

Techno cure 900 should be applied by spray, with the spray nozzle being held approximately 450mm from the concrete surface.

Application should pass back and forth to ensure complete coverage, and pump pressure maintained to give an even, fine spray.

When first applied, the product forms a non-penetrating white coating across the concrete surface. The coating cures to form a white or clear film - according to which version of Techno cure 900 is used - which then provides the moisture barrier to enable effective, concrete curing. The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken.

Techno cure 900 may also be applied to newly hardened concrete not immediately after demoulding, which should be damp. dry. Surfaces which are dry will lead to problematic absorption of the membrane, preventing proper film formation and causing removal difficulties at a later date.

Equipment Motorized spray equipment, which produces a fine spray, is recommended for use with Techno cure 900

Cleaning

Spray equipment should be cleaned immediately after use by flushing through with water. Any residual traces of resin which are left in the nozzle may be cleaned with Techno solvent Over coating and removal Techno cure 900 must be removed from concrete substrates before subsequent coating works

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commence, to promote proper bond between the concrete and the applied coating. Although the membrane will be slowly removed by normal trafficking and UV exposure, this is likely to be inconsistent. To ensure complete removal use high pressure steam or water blasting, or light sand blasting.

Limitations

Techno cure 900 should not be applied onto dry surfaces, which may lead to absorption

and staining which will be difficult to remove at a later date.

- Any concrete surfaces which receive treatment with Techno cure 900 should not be disturbed until the concrete has gained sufficient strength to bear surface loading.

Estimating

Supply

Techno cure 900 20,210 liter packs

Techno solvent 5 liter packs

Coverage

Coverage figures quoted for Techno cure 900 are indicative; and based upon application to fresh or damp concrete at the appropriate time. Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane.

Application rates outside the range given below may be used if necessary, but It is recommended to first contact M.T.C. office.

Techno cure 900 : 3.5 to 5.0m²/liter or 0.2 to 0.285 liters/m²

Storage

When stored in warehouse conditions below 35°C, Techno cure 900 has a minimum shelf life of 12 months for the clear version, and 6 months for the pigmented.

Freezing and exposure to heat and/or direct sunlight should be avoided.

Containers should be kept sealed and airtight to prevent any reduction in shelf life.

Precautions

Health and safety

Techno cure 900 not falls into the hazardous classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin or eyes, in either spray or bulk form.

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Suitable protective gloves and goggles should be worn at all times.

Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, if swallowed seek medical attention immediately - do not induce vomiting.

Fire

Techno cure 900 is non-flammable.

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