

Aluminized resin based, High curing efficiency curing compound for concrete

Description

NIROCURE RB is a non-degrading, continuous film forming, aluminized, polymeric resin based curing compound, suitable for spray application to freshly poured concrete.

NIROCURE RB is available as a silver color liquid. The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement, essential for optimum strength development. The cured concrete is typically harder and exhibits a dust free surface with a reduced incidence of drying shrinkage cracks.

Uses

As a more effective and economical alternative to hessian and water and polythene curing regimes. Suitable for use on all large area concrete surfaces, such as airport runways, concrete roads and bridgeworks. It is not recommended for application when subsequent renders, toppings or coatings are to be applied within the degradation time unless it is removed by cleaning if insufficient time has elapsed to achieve full degradation.

Advantages

- ✓ Eliminates the need for water ponding
- ✓ Improves moisture retention in concrete
- ✓ Prevents rapid water evaporation
- ✓ Promotes a harder dust free surface
- ✓ Reduces drying shrinkage
- ✓ Reduces the incidence of hairline cracks
- ✓ High curing efficiency (> 90 %)
- ✓ Single coat application
- ✓ Reduced labour costs

Characteristics

Appearance	Silver colour liquid
Specific gravity (25°C)	0.822 – 0.842
Dry film appearance	Silver colored, tack free
Water loss (ASTM C156)	< 0.4 Kg/m ² at 72 hours
Drying Time	< 3 hours
Curing Efficiency (BS 7542 at 5m ² /L)	> 90%

Standards compliance

NIROCURE RB has been tested in accordance with BS 7542 - 1992 and the curing efficiency is greater than 90%

Directions for use

Application

Stir NIROCURE RB thoroughly before using. NIROCURE RB should be spray applied to the surface of fresh concrete as soon as the concrete is free from surface water. Do not apply if bleed water is forming or present on the concrete surface. Application not recommended when surface temperature exceeds 40°C.

Do not thin, avoid forming puddles.

The spray nozzle should be held approximately 450mm from the concrete surface and passed back and forth to ensure complete coverage. Pump pressure should be maintained to give an even, fine spray. After spraying, no further application of water or other material is necessary to ensure continued curing. The concrete surface should not be disturbed until it has sufficient strength to bear surface loads. The applied film should not be walked on before it is fully dry and care should be taken to ensure that the film is not broken.

NIROCURE RB may also be applied to the surface of newly hardened concrete immediately after demoulding. In such cases the concrete surface should be sprayed with water to saturate it prior to the application of NIROCURE RB. Dry surfaces may prevent correct film formation and cause absorption of the NIROCURE RB which may lead to staining and difficulty in later removal.

Subsequent surface finishes It is important that the complete removal of the NIROCURE RB should be ensured prior to the application of any surface finish or additional treatment. It is recommended that where the concrete is to receive a coating or the application of tiles, the use of NIRCURE AR is considered. (See separate datasheet).

Packaging

NIROCURE RB is available in 20 and 225 litre drums.

Coverage rate

The recommended coverage rate is between 3 and 5.0 m² / litre. Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local NCL office for advice in such cases.

Technical support

NIRMAN CHEMICALS provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

Storage and Shelf life

Store under cover, out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment.

Shelf life is 12 months when stored as above.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice consult our local NIRMAN CHEMICALS representative.

Safety precautions

NIROCURE RB should not be swallowed or allowed to come into contact with skin and eyes. Avoid inhalation of vapours and ensure adequate ventilation.

Suitable protective gloves and goggles should be worn.

Some people are sensitive to resins and solvents. Resin Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream followed by washing with soap and water - do not use solvent. 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

NIROCURE RB is flammable. Do not expose to naked flames or other sources of ignition.

Cleaning of Tools

Use NIROSOL to clean rollers and spray equipment before NIROCURE RB become dry. Any excess cured material will have to be mechanically removed.

Note

All Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact our local NIRMAN CHEMICALS representative.

Disclaimer

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