

ACRYLIC RESIN BASED CURING, SEALING AND PROTECTIVE MEMBRANE

Description

NIROCURE AB is a non-degrading, membrane forming liquid based on specially formulated acrylic resin suitable for curing newly placed or freshly deshuttered concrete, assists in the retention of water during hydration. The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement; essential for optimum strength development.

It is also suitable for use as a sealer and dust proofer for floors and walls.

Additionally, the membrane acts as a primer system for many subsequent surface finishes that do not rely on penetration for substrate bond.

Uses

Provides a curing, sealing and dustproofing compound, which can be used in a wide range of applications:

- High rise construction to eliminate water curing
- Floors, warehouses, slabs and columns
- Dustproofing concrete walls and floors
- Clear sealer for concrete
- Self-curing, primer system to subsequent coverings

Advantages

- Improves moisture retention in concrete
- Prevents rapid water evaporation
- Sealer and dustproofer
- Good abrasion resistance – long protection
- Reduces drying shrinkage
- Reduces the incidence of hairline cracks
- High curing efficiency
- Non-degrading – no removal required
- Act as primer for protective coatings and bitumen

Characteristics

Appearance	White/clear in appearance, clear after application
Specific gravity (25°C)	1.05 ± 0.05
Water loss (ASTM C156)	< 0.5 Kg/m ² at 72 hours
Drying Time	~ 2 hours at 25°C

Standards compliance

NIROCURE AB Complies to ASTM C309 Type 1, class A

Directions for use

Application

NIROCURE AB should be gently stirred immediately prior to use to ensure uniformity of the material as applied.

New concrete :

Application to freshly placed concrete should not begin until the surface is free from water, and should not commence at all if bleed water is apparent. NIROCURE AB should be applied as soon as practically possible after removal of shuttering, and whilst the concrete surface is still damp. However, any traces of laitance, grout runs or loose material should be removed

Application

NIROCURE AB should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of NIROCURE AB applied at a uniform rate of 5 to 7 m² per liter. In case of sealing and dustproofing application, 2 coats at the above range must be applied. The second coat should be applied at coverage of 10-15 m² per litre.

The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken.

Spray equipment

Motorized or knapsack spray equipment, which produces a fine spray, is recommended for use with NIROCURE AB.

Subsequent finishes

The resin used in NIROCURE AB allows direct application of many floor coverings and paint systems, as given typically below:

- Water based emulsion paints containing PVA, PVC, acrylic co-polymers.
- Bituminous emulsions and solutions
- Thin section polymer modified cement systems
- Epoxy resin coatings which do not rely on penetration for substrate bond
- Polyurethane coating
- Water and solvent based acrylic coatings

Coverage

The recommended rate of application is 5-7 square metres per litre. This corresponds to that at which NIROCURE AB has been tested, and at which it attains the claimed degree of curing efficiency. In favorable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates. When using NIROCURE AB for floor areas where maximum chemical and wear resistance is required, it is recommended that a further coat be applied after 24 hours.

In place of the above recommendations, the rates of cover stipulated in a specification should at all times be observed.

Packaging

NIROCURE AB is available in 20 and 200 litre packs.

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

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 AB is non-flammable.

Cleaning of Tools

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 warm water.

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

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labor involved in the application are beyond our control.



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