

NOVACURE AB

Acrylic Resin-based Multi-role Curing and Sealing Compound for Concrete

Description

Novacure AB is a ready-to-use, acrylic polymer based liquid curing compound and is white-pigmented to substantially increase light reflectance which effectively prevents premature water loss from the concrete due to both heat of hydration and sunlight.

Recommended

- ✓ 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
- ✓ It can be used after plastering

Advantages

- ✓ Excellent moisture retention
- ✓ Minimises shrinkage cracks
- ✓ Can be used as a sealer and dust proofer for floors and walls
- ✓ UV, chemical and abrasion resistant
- ✓ Versatile – Can be applied to both fresh and existing concrete
- ✓ Single application – Forms moisture barrier for whole of the curing period
- ✓ Cost-effective – Can be over-coated with water-based and solvent-based acrylic, epoxy and polyurethane coatings
- ✓ Eliminates use of water, hessian, or sand completely
- ✓ Reliable – No risk of erratic and poor curing; ensures efficient cement hydration
- ✓ Non-toxic and non-flammable
- ✓ Will bond with plastering, emulsion paints and all cementitious coatings

Standard Compliance

Novacure AB complies with ASTM C1315 Type 1, Class A.

Technical Properties

Appearance	White/Clear Colour
Specific Gravity	1.08 ± 0.02
Drying time (ASTM C1315, M 8.3)	35 to 45 minutes @ 20°C 10 to 15 minutes @ 35°C
UV Resistance (ASTM G53)	Resistant – No yellowing Chalking – Lighter than gardener colour 3

Instructions for use

Preparation – **Novacure 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 bleeding water is apparent. **Novacure 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

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

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

Motorised or knapsack spray equipment, which produces a fine spray, is recommended for use with **Novacure AB**.

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 warm water.

Subsequent finishes

The resin used in **Novacure 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

Coverage figures quoted for **Novacure AB** are indicative; and based upon application to fresh or damp concrete at the appropriate time.

For curing fresh concrete floors, apply at a rate of 5 m² to 6 m² per litre to meet moisture retention requirements of ASTM C1315. For sealing of existing plain or coloured concrete floors, coverage will vary depending on the texture and porosity and ambient temperatures however it will generally be in the range 7.5 m² to 10 m² per litre per coat, two coats recommended.

Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane.

Packaging

Novacure AB is supplied in 20 kg and 200 kg HDPE barrels.

Shelf life

When stored in warehouse conditions below 35°C, **Novacure AB** has a minimum shelf life of 6 months.

Freezing point

Not to be stored at high temperatures for longer periods. Should be protected from frost.

Safety

It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.ccichemicals.in or contact us at info@ccichemicals.in.

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