NOVACURE WB

Wax-based Concrete Curing Compound

Description

Novacure WB is a water-based concrete curing compound based on a low-viscosity wax emulsion. It is supplied as a white emulsion which forms a clear film on drying.

When first applied to fresh cementitious surface, the emulsion breaks to form a continuous, non-penetrating white coating. This dries to form a continuous clear film which provides a barrier to moisture loss, ensuring more efficient cement hydration, improved durability, and reduced shrinkage.

Uses

- ✓ As a spray applied membrane to retain moisture in concrete for effective curing.
- ✓ Suitable for all general concrete applications and of particular benefit for large area concrete surfaces, such as airport runways, roads, and bridgeworks.

Advantages

- ✓ Improved curing of concrete enhances cement hydration and provides a more durable concrete.
- ✓ Control of moisture loss improves surface quality, reducing permeability, producing a hardwearing, dust-free surface and minimising potential for surface cracking and shrinkage.
- ✓ Fugitive colour provides visual guide during application.
- ✓ Water-based, therefore, non-flammable
- ✓ Spray application reduces labour costs and eliminates the need for alternative curing systems.

Technical Properties

Appearance : Milky white liquid

Standards Compliance

Novacure WB gives 75% or greater curing efficiency when tested to BS 7542 and complies with ASTM C309 and AASHTO M148 as Type 1.

Application Instructions

Minimum application temperature: 5°C

Novacure WB should be spray applied to the surface of fresh concrete. Application should begin immediately after the concrete is free from surface water. Do not apply if bleed water is forming or present on the concrete surface.

The spray nozzle should be held approximately 450 mm from the concrete surface and passed back and forth to ensure complete coverage. The fugitive white colour during application provides a guide to the area covered. Pump pressure should be maintained to give an even, fine spray.

After spraying, no further application of water 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.

Novacure WB may also be applied to the surface of newly hardened concrete immediately after demoulding. In such cases, the concrete surface must be damp and not dry. Dry surfaces may prevent correct film formation and cause absorption of the **Novacure WB** which may lead to staining and difficulty in later removal.

Coverage rate

The recommended coverage rate is between 4 m^2 and 5.0 m^2 per kg (0.200 kg to 0.285 kg per m^2). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements.

Equipment

Spray equipment producing a fine mist without damaging the emulsion may be used for **Novacure WB**, such as knapsack or motorised sprayers. The suitability of equipment should be ensured by an application trial.

Equipment cleaning

Spray equipment should be cleaned immediately after use by flushing through with water. If spray nozzles become blocked with wax particles, these may be easily cleared with white spirit.

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Overcoating and Removal

Novacure WB must be removed from a concrete surface before application of a subsequent coating to ensure a good bond of the coating material to the concrete. **Novacure WB** will be slowly removed by physical abrasion in normal trafficking and exposure. To ensure complete removal, use high pressure steam, water jet or light sand blasting.

Limitations

Novacure WB should not be continuously re-circulated in high shear pumps in concrete trains or similar applications as this may cause a breakdown of the emulsion before spraying. If continuous re-circulation is necessary, the sprayer should be fitted with a low diaphragm pump.

In extreme drying conditions, additional curing using polythene or wet muslin may be required.

Packaging

Novacure WB is supplied in 200 kg and 20 kg barrels.

Storage

Novacure WB has a minimum shelf life of 12 months provided the temperature is kept within the range of 4°C to 35°C. Freezing and prolonged exposure to heat or direct sunlight should be avoided. Containers should be kept sealed and airtight to prevent loss of moisture by evaporation.

Safety

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

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