

Estocure W90

High Performance Acrylic-Wax Based Curing Compound

Description

Estocure W90 is a non-ionic wax (acrylic – paraffin) 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.

Uses

As a spray applied membrane to retain moisture in concrete for effective curing. Suitable for all general concreting 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 hard wearing, 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.

Standards Compliance

- **BS 7542**
- **BS 8100 Part 1, clause 6.6.3 (c)**
- **ASTM C309**
- **AASHTO M148 as Type 1D**

Physical Properties

Curing Efficiency Index, % BS 7542:1992	> 90
Liquid Membrane Forming Compound for Curing Concrete ASTM C309-93	Complied
Specific Gravity at 25°C	0.85 – 0.95
Colour	Milky White
Dry Film Colour	Clear film
Dry Film @ 30°C (approx.)	30 min – 1hr

Application Instructions

Minimum application temperature: 5 °C

When first applied to a 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. **Estocure W90** should be spray applied to the surface of fresh concrete. Application should begin immediately 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 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. **Estocure W90** 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 **Estocure W90** which may lead to staining and difficulty in later removal.

Equipment

Spray equipment producing a fine mist without damaging the emulsion may be used for **Estocure W90**, such as knapsack or motorised sprayers. The suitability of equipment should be ensured by an application trial.

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 solvent such as white spirit.

Overcoating and removal

Estocure W90 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.

Estocure W90 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

Estocure W90 should not be continuously re-circulated in high shear pumps in concrete train or similar applications as this may cause a breakdown of the emulsion before spraying. If continuous recirculation is necessary, the sprayer should be fitted with a low shear diaphragm pump.

Packing & Size

Estocure W90	200 Litre Drum 20 Litre Pail
---------------------	---------------------------------

Coverage

Estocure W90	5 m ² per litre depends on porosity of concrete.
---------------------	---

Technical Support

Denka offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

Estocure W90 has a shelf life of 12 months at ambient room temperature in unopened condition.

If stored in extreme heat locations the shelf life may be reduced.

Precautions

Estocure W90 should not be swallowed and avoid to be in contact with skin or eyes. Wear gloves and goggles for protection. If swallowed, seek medical attention immediately.

Do not induce vomiting.

Fire

Estocure W90 is water based and is non-flammable.

Additional Information

Denka Construction Solutions Malaysia Sdn Bhd and offers a wide range of complementary products, which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



Denka Construction Solutions Malaysia Sdn Bhd

No. 18 Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +60 3 5510 8810 Fax: +60 3 5518 8202
www.denka-cs.com