

High efficiency polymer based film forming curing agent

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. The curing compound is used for the curing of Pavement Concrete

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
- Light reflective grades minimise solar temperature gain
- Spray application reduces labour costs and eliminates the need for alternative curing systems.

Description

Concure LP90(M) concrete curing compound is polymer based continuous film forming curing compound and is supplied as aluminised polymeric resin solution drying to a silver film on application.

Specific Gravity : 0.81 - 0.83

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

The aluminised grades contain aluminium flakes to meet specifications for reduction of solar temperature gain.

Technical Support

Fosroc provides a technical advisory service to specifiers, end-users and contractors as well as on-site technical assistance in locations all over the country.

Standards compliance

Concure LP90(M) has been tested in accordance with BS 7542 - 1992 for curing efficiency.

Application instructions

Application

Concure LP90(M) should be stirred before use to ensure dispersion of settled material.

Concure LP90(M) should be spray applied to the surface of fresh concrete. Application should begin as soon as 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 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.

Concure LP90(M) 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 Concure LP90(M). Dry surfaces may prevent correct film formation and cause absorption of the Concure LP90(M) which may lead to staining and difficulty in later removal.

Coverage rate

The recommended coverage rate is between 3.5 and 5.0 sq.m / litre (0.200 to 0.285 litres/sq.m). Coverage rates outside this recommended range may be used if necessary and suitable to meet specific requirements. Contact local Fosroc office for advice in such cases.

Equipment

Spray equipment producing a fine mist may be used for Concure LP90(M), 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 thoroughly with Nitoflor Sol.

Concure LP90(M)



Overcoating and removal

Concure LP90(M) need to be removed from a concrete surface before application of a subsequent coating.

Limitations

Specifications calling for wax or water based curing membranes can be met using Concure WB.

Estimating

Packaging

Concure LP90(M) is supplied in 20 and 200 ltrs containers.

Storage

Concure LP90(M) has a minimum shelf life of 6 months, when stored in the original unopened containers under normal warehouse conditions.

Precautions

Health and Safety

Concure LP90(M) 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.

Incase 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

Concure LP90(M) is flammable. Do not expose to naked flames or other sources of ignition.

Flash point : 40°C

Cleaning and disposal

Spillages of Concure LP90(M) should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.

The disposal of excess of waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.



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