

Strucure® SW50

Silicate Salts Based Concrete Curing Compound

Uses

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

Advantages

- Improved curing of concrete, enhances hydration process and provides a more durable concrete
- Control of moisture loss improves surface quality, reducing permeability, minimizing surface cracking and shrinkage.
- Fugitive colour provides visual guide during application.
- Also available in white pigmented grade.
- Water based, therefore, non-flammable.
- Spray application reduces labour costs, therefore eliminates the need for alternative curing systems.

Standards compliance

Strucure SW50 gives 75% or greater curing efficiency when tested to BS 7542 and complies with BS 8110 Part 1, clause 6.6.3(c), ASTM C309 and AASHTO M148 as Type 1D.

Description

Strucure SW50 water based concrete curing compound is based on a silicate salts emulsion. It is supplied as a white emulsion. Strucure SW50 is also available in a white pigmented version. It contains a white pigment based on titanium dioxide to meet specifications requiring such pigmentation for reduction of solar temperature gain.

Properties

Appearance	White or Yellowish Emulsion
Chloride	Nil to BS5075

Instructions for use

Application:

Strucure SW50 white should be stirred before use to ensure even dispersal of the pigment. Strucure SW50 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 is 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 trafficked until it is fully dry, care should also be taken to ensure that the film is not subsequently broken.

Strucure SW50 may 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 Strucure SW50 which may lead to staining and difficulty in later removal.

Equipment:

Spray equipment such as knapsack or motorized sprayers which produce a fine mist without damaging the emulsion may be used for Strucure SW50.

Limitations

- Strucure SW50 should not be continuously recirculated 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
- Minimum application temperature 5°C

Packaging

Strucure SW50 is available in 22 & 210 kg drums.

Storage

Strucure SW50 has a minimum shelf life of 12 months at 35°C if kept in a dry store in the original, unopened packs. The shelf life will be reduced at higher ambient temperatures.

Precautions

Health and safety:

Strucure SW50 is alkaline and should not come into contact with skin and eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust mask should be worn. If contact with skin occurs, wash with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

Fire:

Strucure SW50 is water base and non-flammable.