

PENTENS CONC-CURE

High Efficiency Concrete Curing Compound

Product Data Sheet

Description

PENTENS CONC-CURE is a range of liquid curing compounds for the prevention of premature water loss in concrete.

PENTENS CONC-CURE is applied to fresh concrete surfaces to form a fast dry, thin flexible and tough impervious membrane which protects the concrete from rapid water evaporation during initial curing stages, thereby assist in obtaining maximum strength, durability and helps to eliminate the shrinkage of cracks and surface dusting.

Uses

PENTENS CONC-CURE is particularly useful in large areas of exposed concrete such as:

- Aprons, hard standing & retaining walls
- Roof & bridge decks
- Pre-stressed beams and piers, etc
- Highways, runways and taxiways
- Column, beam & precast unit

Advantages

- Enables cement to hydrate more efficiently.
- Easy application.
- Reduce surface shrinkage and cracking by eliminating moisture loss from exposed surfaces.
- Save time and eliminates need of damp hessian, sand or polyethylene.
- Fast forming film dries within 1-2 hours, depending on ambient temperature and site conditions.
- Forms a non-staining continuous clear film on clean stain free concrete or render surfaces.
- Can be applied as soon as possible after finishing concrete.
- Non-flammable and non-toxic under normal usage and is supplied ready for immediate use.

Technical & Physical Data

Form	Liquid
Curing Efficiency Index, BS 7542, 1992	> 75%
Loss of Water in 72 Hours (kg/m ²), ASTM C156-93	< 0.65
Liquid Membrane Forming Compound for Curing Concrete, ASTM C309-93	Comply
Specific Gravity at 25°C	1.02 -1.05
Color	Milky white
Dry Film Color	Clean film
Shelf Life	12 months when unopened.
Storage Condition	Store in a dry, cool place
Packaging	20 litre /pail 210 litre /drum

Important Notes

1. Minimum ambient and substrate temperature is 5°C.
2. Apply only to clean surfaces which free from surface water and leakages.

Instruction for Use

Application

Stir content thoroughly before using. Spray PENTENS CONC-CURE as evenly as possible over the freshly laid concrete as soon as possible after final troweling and when the surface water has disappeared (approximately 60mins-120mins depending on the ambient temperature and atmospheric conditions). If spray equipment is not available, apply with soft brush, broom or wide nap roller as soon as the concrete surface is hard enough. Apply to vertical surface immediately after the formwork has been removed. Apply at an even coverage rate of not greater than 0.15 litre/m².

Ensure the concrete surface is completely free of stains, oils and coatings to obtain good adhesion of PENTENS CONC-CURE and to avoid obtaining discoloration or uneven surface effects.

Cleaning

Immediately after use, the spray equipment should be cleaned out, especially the line and nozzle, with water.

Spraying Equipment

Various types of spraying equipment can be used, i.e. knapsack or motorized sprayer for the application of PENTENS CONC-CURE.

Limitations

Do not use PENTENS CONC-CURE on areas where after painting and rendering are carried out, or where back water pressure or condensation are expected to occur.

Do not apply onto stained, oil or contaminated concrete or render surfaces, which can cause change of color, non-uniformity or inhibit the bond of subsequent surface treatment.

Do not dilute PENTENS CONC-CURE with solvent.

Health & Safety

PENTENS CONC-CURE should not be swallowed and avoid contact with skin or eyes. Gloves and goggles should be worn when spraying with a short lance. If contact with skin occurs, wash with soap and water. Do not use solvent. In case of contact with eyes, rinse with plenty of water and seek for medical advices if symptom persist. Ensure adequate ventilation when used in enclosed areas.