

Silkon

ULTRASET 100

Chloride Free Shotcrete Admixture

To enable a high build thickness of sprayed concrete, shotcrete and gunite without slump with minimum rebound.

Usages and Advantage

- > High build enables faster coverage with minimised slump
- > Can be applied up to 320 mm in one application to vertical surfaces and up to 220 mm overhead dependant on weight/ volume of aggregate
- > Non caustic leads to safer handling/ operating conditions
- > Low rebound - controlled set allows new material to be embedded in applied mortar
- > Chloride free liquid
- > 28 Days strength not adversely affected

Standard Compliance

Ultraset 100 meets the requirements of ACI 506-56 (recommended practice for shotcreting - Concrete society Specification for Sprayed concrete).

Technical Support

Silkon provides a technical advisory service for on-site assistance and advise on admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Properties

Appearance	A Turbid Liquid
Specific Gravity	1.20 @ 27 ° C *
pH	2.0 *
Chloride content	Nil to BS 5075 *

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered

Description

Ultraset 100 is a chloride free liquid based on a blend of inorganic powders, which is added to a sprayed concrete mix to improve properties of high build and low rebound.

Storage Conditions

Store in dry conditions in the original, unopened container. If stored at high temperatures, the shelf life may be reduced.

Dosage recommendation

The optimum dosage for Ultraset 100 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix. A starting point for such trials is to use a dosage within the normal typical range of 5.0 litres/100 kg of cementitious material, including PFA, GGBFS or microsilica.

Over Dosages

Dosages outside the recommended range quoted above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact Silkon for advice in these cases.

Effects of Overdosing

An overdose of double the intended amount of Ultraset will result in increased setting of the mix before it reaches the surface to be sprayed. It will also result in a loss of strength.



Application Instructions

Mixing and Sispensing

A pumpable mix design is required to produce a high workability mix without risk of bleeding or segregation of aggregates. Supermix PC 350 shall be used to module above concrete. The correct quantity of Ultraset 100 is directly added to the concrete at the time of shotcreting.

Packaging

Ultraset 100 is available in 300 kg.

Shelf Life

Ultraset 100 has a minimum shelf life of 6 months.

Fire

Ultraset 100 is Non-Flamable.

Cleaning and disposal

Spillages of Ultraset 100 should be hosed down with water.

Precautions Health and Safety

Ultraset 100 is non-caustic. It should not be swallowed or allowed to come into contact with skin or eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.



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