

Talrakplast® CS

High performance mineral admixture for concrete



The Construction Alchemists

Description

Talrakplast® CS, supplied as a fine powder is added to the concrete mix early during the mixing process. The resultant low permeability concrete will exhibit improved mechanical properties and increased resistance to the effects of chlorides, sulphates, gases, frost attack and alkali silica reaction.

Features & Benefits

- Significantly reduces permeability by minimizing the penetration of moisture and aggressive elements
- Significant reduction in chloride ion penetration by reducing continuous capillary pores
- Improved mechanical properties

Primary Application

Talrakplast® CS is a mineral admixture primarily used to improve the properties of hardened concrete where a reduction in permeability, increased durability and resistance to chlorides, sulphates, abrasion, frost attack and alkali silica reaction are required.

Technical properties

Specific Gravity	2.6 - 2.9
Loss on ignition	Max 5%
Density	900-1000 kg/m ³
Chemical Analysis, SiO ₂	Min.80%

Dosage

Typically 4 to 10% by weight of cement depending upon the specific need. The optimum dosage of Talrakplast® CS to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. Please note that higher addition levels are generally required where the high performance concrete such as high strength concrete or underwater concrete is a pre-requisite.

Application Instruction

Dispensing and mixing

Talrakplast® CS should always be added in the early stages of the mixing process. It is recommended that Talrakplast® CS be weigh batched to the required quantity prior to addition to the mix.

In dry batching operations, Talrakplast® CS should be dry blended with aggregates and cement prior to the addition of water to the mixer. In wet batching operations Talrakplast® CS should be added to the mixer at the same time as the cement. If required, Talrakplast® CS can be added to the mixer in slurry form.

In order to achieve a low water cement ratio, the use of appropriate range of water reducing admixtures from Talrakplast® range of admixtures is highly recommended.

Placing

When producing concrete with Talrakplast® CS a target slump in the range of 25 to 35 mm in excess of the normal slump requirement shall be considered. This will accommodate the additional cohesion promoted by the use of Talrakplast® CS. Concrete produced with Talrakplast® CS will have greatly improved cohesive qualities.

Estimating Packaging

Talrakplast® CS is supplied in 15kg bag

Storage

Talrakplast® CS has a shelf life of 12 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety instructions

Contact with the skin should be avoided as certain sensitive skins may be affected. In such cases if contact occurs, the skin should be washed immediately with soap and water-not solvent. Gloves and barrier creams should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.
www.talrak.in

Ref : TCC/TDS/CA09 - R2