

Talrakplast® WP

Integral water proofing admixture for concrete and mortar



The Construction Alchemists

Description

Talrakplast® WP is a dark brown liquid, based on lignosulphonates which mixes readily with water and therefore disperses evenly. It waterproofs by improving the quality of the concrete or mortar. It reduces the water demand for required workability and minimizes segregation and bleeding. Thus it is more efficient compared to traditional powder waterproofing systems as its use results in two fold improvement of concrete or mortar.

Features & Benefits

- Liquid admixture: Instant and complete dispersion throughout the mix. Uniform waterproofing throughout concrete matrix.
- High efficiency: Dramatic reduction in permeability of concrete/mortar.
- Improved workability: Improves compaction of concrete and mortar, even where harsh sands or aggregates are used.
- Improved concrete quality : Minimizes porosity and honeycombing. Produces dense homogenous concrete.

Primary Application

To minimize permeability and increase the waterproofing properties of concrete and cement sand mortars for critical applications like roof slabs and screeds, basements, external plastering, bathroom floors, water tanks, sumps and drains.

Technical properties

Specific gravity : 1.15 - 1.17

Chloride content : Nil as per IS 2645-2003

Compatibility : Can be used with all types of cements including pozzolanic but not high alumina cement.

Permeability to water : Less than 15% as compared to 50% max. allowable under IS 2645 compared to control sample.

Setting Time : No significant effect on setting time of concrete or mortar.

Compressive strength : Maintains compressive strength equal to control concrete or mortar and can even improve on strength property if full advantage of water reduction potential is utilized.

Workability : Improves workability at reduced water: cement ratio.



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

Application Instruction

Mortar: Talrakplast® WP is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum.

Concrete: Talrakplast® WP is recommended for all general mass concrete work where, due to harsh aggregates, difficulty of compaction or mix control, the risk of porosity and permeability must be minimized. Eg. Basements, bund walls, tanks, balcony, floor and roof slabs.

Dosage

The minimum dosage is 100ml and the maximum is 200ml per 50kgs of cement. If maximum dosage is used a minimum of 15% water should be reduced to ensure no loss in strength. Site trials shall be carried out to arrive at the optimum dosage.

The required quantity of Talrakplast® WP is measured and stirred into the first or second bucket of water. Talrakplast® WP water mixture shall be added to the concrete or mortar and mixed thoroughly. Mixing shall be continued and further water shall be added until the required workability is obtained. The total amount of water added per mix in the initial batches shall be maintained for the remaining batches.

Note: Mixes using Talrakplast® WP will require much less water than normal mixes for the same workability. Water reduction may be as much as 15% or more. If the moisture content of the sand or aggregate changes i.e., it becomes wetter or dryer, then the amount of water used must be reduced or increased to give the original workability.

Estimating Packaging

Talrakplast® WP is supplied in 20ltr can.

Storage

Talrakplast® WP 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

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.

Ref : TCC/TDS/CA10 - RI