

Integral waterproofing liquid admixture for concrete and mortar

Uses

To minimise 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, drains etc.

Advantages

- **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:** Minimises porosity and honey combing. Produces dense homogenous concrete.

Standards compliance

Conplast X421IC conforms to IS:2645-2003.

Description

Conplast X421IC is a dark brown liquid based on lignosulphonates which mixes readily with water and therefore disperses evenly.

Conplast X421IC waterproofs by improving the quality of the concrete or mortar. It reduces the water demand for required workability and minimises segregation and bleeding. Thus it is more efficient compared to traditional powder waterproofers as its use results in two fold improvement of concrete or mortar.

Technical support

Fosroc provides a technical advisory service for onsite assistance and advice 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

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 utilised.

Workability: Improves workability at reduced water cement ratio

Application instructions

Mortar: Conplast X421IC is ideal for use with all sand/cement mortars where it is required to reduce permeability to a minimum.

Concrete: Conplast X421IC 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 minimised. Eg. Basements, bund walls, tanks, balcony, floor and roof slabs.

N.B.: The minimum dosage is 125ml 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 Conplast X421IC is measured and stir into the first or second bucket of water.

Conplast X421IC 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.

Conplast® X421IC

Note: Mixes using Conplast X421IC 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

Conplast X421IC is supplied in 125ml, 1, 5, 20 and 200 litre containers.

Storage

Conplast X421IC has a minimum shelf life of 12 months, if kept in a dry store in unopened containers.

Precautions

Health and Safety instructions

Conplast X421IC is non-toxic. Any splashes on skin should be washed well with water. If contact with eyes occurs, it shall be washed well with plenty of water and medical advice sought immediately.

Fire

Conplast X421IC is non-flammable.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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Important note :

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