

Triton TT Admix



Description

Triton TT ADMIX is a unique chemical treatment for the waterproofing and protection of concrete. This admix is specially designed as a concrete additive at the time of batching.

Introduction

Packed as a dry powder compound, Triton TT ADMIX consists of Portland cement, very fine treated silica sand and various active proprietary chemicals. The active chemicals react with the moisture in the fresh concrete and the by-products of cement hydration causing a catalytic reaction that generates a non-soluble crystalline formation of dendritic fibres throughout the pores and capillary tracts of the concrete. Thus the concrete itself becomes sealed against the penetration of water or liquid, protecting the concrete from the deterioration effect of harsh environmental conditions.

Characteristics

1. Maximises waterproofness of concrete.
2. Will withstand extreme hydrostatic pressure.
3. Exceptional durability.
4. Reduces shrinkage and cracking.
5. Protection of concrete against certain aggressive chemicals including chloride attack to steel reinforcing.
6. Improves workability of concrete.
7. Allows passage of air and water vapour.
8. Cost effective.

Concrete Mix Requirements: (See additional information sheet)

- For purposes of warranties, minimum cement content 350kg/m³
- Can be used within concrete mixes containing replacements such as GGBS and PFA etc.
- Water: Cement ratio – 0.45 (max 0.5)

Directions for use

For waterproofing concrete the recommended addition rate for **Triton TT ADMIX** is 1.2% by weight of binder. For enhanced chemical resistance please consult with Triton's technical team to determine the approximate addition rate.

Triton TT ADMIX is added to the concrete at the time of batching. The sequence of procedures for addition will vary according to the type of batch plant operation and equipment.

1. Ready Mix Plant – Dry Batch Operation

Add **Triton TT ADMIX** in powder form to the drum of the ready-mix truck. Drive the truck under the batch plant and add 60% – 70% of the required water along with 140kg – 230kg of aggregate. Mix the materials for 2-3 minutes to ensure the **Triton TT ADMIX** is distributed evenly throughout the mix water. Add the balance of materials to the ready-mix truck in accordance with standard batch practices.

2. Ready Mix Plant – Central Mix Operation

Mix **Triton TT ADMIX** with water to form a very thin slurry (e.g. 6kg – 8kg of powder mixed with 10 litres of water). Pour the required amount of material into the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant in accordance with standard practices (taking into account the quantity of water that has already been placed in the ready-mix truck). Pour the concrete into the truck and mix for at least 5 minutes to ensure even distribution of the **Triton TT ADMIX** throughout the concrete.

3. Precast Batch Plant – Pan Mixer

Add **Triton TT ADMIX** to the rock and sand, then mix thoroughly for 2-3 minutes before adding the cement and water. The total concrete mass should be blended using standard practices.

NOTE: It is important to obtain a homogeneous mixture of **Triton TT ADMIX** with the concrete. Therefore, do not add dry **Triton TT ADMIX** powder directly to wet concrete as this may cause clumping and thorough dispersion will not occur.

For further information regarding the use of **Triton TT ADMIX** for a specific project, consult with a Triton technical representative.

Specification

- Type B Integral Protection in Accordance with BS8102 (2009)
- NBS: Clause J10 120 Cementitious Mortar Tanking / Damp Proofing

Curing

Normal practices for placing and curing concrete should be followed as laid out in your local standards.

Technical Services

Technical assistance is available through Triton's technical department or its field based technical representatives.

Packaging

- **Triton TT ADMIX** is available in 20kg Drums or pre-dosed 4.1kg water-soluble bags.
- Product must be stored dry at a minimum temperature of 7°C.
- Shelf life is one year when stored under proper conditions.

Health & Safety

- **Triton TT ADMIX** is alkaline.
- Protect hands with rubber gloves.
- Avoid contact with skin and eyes. Should this occur, flush with water.
- If irritation persists, contact physician.

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