

TT ADMIX

Crystalline watertight concrete

TT-Admix is a waterproofing crystalline admixture that reduces the permeability of concrete and increases the strength and durability of standard concrete.



TT Admix is a unique integral water resisting crystalline admixture for the waterproofing and protection of concrete. **TT Admix** is specifically designed as a concrete additive, in water soluble bags which are added by the Ready Mix Concrete supplier at the time of batching.

The active chemicals in the **TT Admix** react with fresh concrete to generate insoluble crystalline growths, which seal the concrete against water penetration and protect the concrete against harsh environmental conditions. Packed as a dry powder compound, **TT Admix** consists of Portland cement, very fine treated silica sand and various active proprietary chemicals. The functional, active components of the **TT Admix** remain available within the cured concrete and are reactivated should minor cracking or movement occur when water is present.

ADVANTAGES

- Withstands extreme hydrostatic pressure up to 12 bar and increases water resistance.
- Crystalline technology formulation promoting quicker self healing capabilities.
- Reduces permeability, porosity and enhances durability of concrete.
- Reduces shrinkage and other minor forms of cracking when cured in line with best practice guidelines.
- Fully protects concrete and steel from aggressive ground conditions such as chlorides.
- 10 year product warranty available. Available prior to project commencing and input from Wykamol / Triton.
- Quick to install without impacting on site-programme, and cost effective.

TECHNICAL DATA

TT Admix is added at the ready mixed concrete plant, at the time when the concrete is produced. **TT Admix** comes in dry powder form, in water soluble bags at a rate of 1.17% by weight of cement.

TT ADMIX CONCRETE MIX DESIGN REQUIREMENTS

1. Maximum WCR - 0.45%
2. Minimum Cement Content - 350..kg/m³
3. Slump - S3 consistency (typically)

Blended cement binder mixes are preferred and encouraged such as PFA / GGBS and Silica Fume blends. Dosage is 1 bag of **TT Admix** per cubic metre of concrete. In the event of half m³, dosage must be rounded up to a full a full m³.

USES

1. Below ground structures such as habitable living spaces, car parks, storage etc.
2. Aqueous water retaining structures such as swimming pools or reservoirs.
3. Green Roof, podium deck or suspended slabs.
4. Waste transfer stations or where aggressive ground conditions are present.

Please consult your local sales representative for more application methods.

When using **TT Admix**, please refer to the BBA certificate for more information. When placing **TT Admix** it is absolutely essential that good concreting practice is maintained throughout such as correct placement, compaction, curing and pour sequencing. Further information can be obtained from Wykamol / Triton and other 3rd party associations through various standards and advice guides.

When used in combination of a dual waterproofing system please refer to BS8102:2022 for more information, or consult with your local area representative.

CONCRETE THICKNESSES

When using **TT Admix**, concrete must have the minimum thickness requirements:

- 200mm for all liner walls and slabs
- 300mm for all monolithic pours in deep section thicknesses.
- Full slab thickness for Podium Deck / Suspended slabs. Split pours are not allowed.

DRY BATCH OPERATION

Add **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 **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.

CENTRAL MIX OPERATION

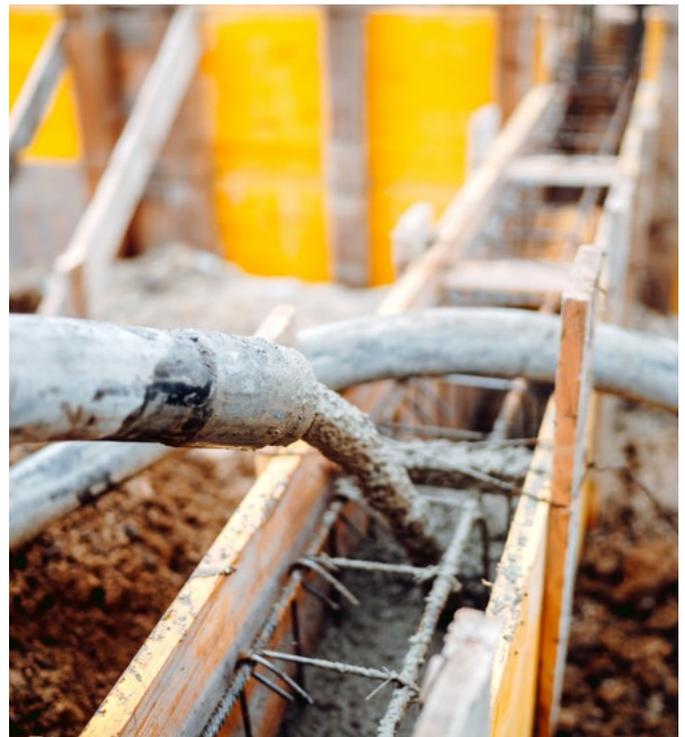
Mix **TT Admix** with water to form a very thin slurry (e.g. 6kg – 8kg of powder mixed with 10 litres of water). Pour the required amount of material into the drum of the ready-mix truck. The aggregate, cement and water should be batched and mixed in the plant in accordance with standard practices (taking 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 **TT Admix** throughout the concrete.

PRECAST BATCH PLANT – PAN MIXER

Add Triton **TT Admix** to the aggregate 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 **TT Admix** with the concrete. Therefore, do not add dry **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 **TT Admix** for a specific project, consult with a technical representative.



SPECIFICATION

- Type B Integral Protection in Accordance with BS8102:2022
- NBS: Clause J10 120 Cementitious Mortar Tanking / Damp Proofing

TT Admix crystalline system will work when the concrete is designed in accordance with BS EN 1992-1 & 3. Non-conformance of these standards or malpractice from application on-site are not covered by Wykamol / Triton. Must be in strict accordance with BBA certificate and information we provide.

When using **TT Admix**, all of our ancillary products such as **TT Waterbar** and **TT Swellmastic S2** (and others) but must be installed within the construction joints.

For more information please refer to separate product data sheets. No 3rd party materials or products are allowed to be used unless approval has been given by Wykamol / Triton in writing.

CURING TT ADMIX

It is important that newly cast **TT Admix** concrete is fully cured and in line with relevant industry standards and best practice. We recommend a minimum curing efficiency liquid compound of 90% and white in colour. Please refer to BS 7542 for more information. Wykamol / Triton can advise accordingly on best practices throughout different times of the year.



TECHNICAL SERVICES

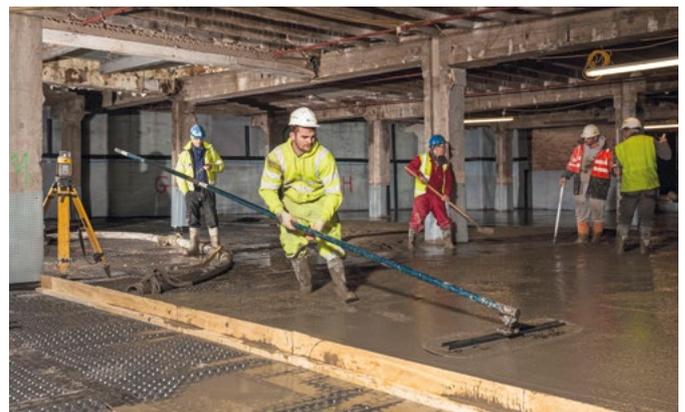
For assistance please contact our technical department, or your local sales manager for support.

PACKAGING AND STORAGE

- **TT Admix** is a grey powder supplied in plastic pails each containing 6 x 4.1kg dissolvable bags of product. X 1 pallet contains 24 pails (144 x 4.1kg bags).
- Product must be stored dry at a minimum temperature of 7°C.
- Shelf life is one year when stored under proper conditions.
- Minimum shelf life 12 months.

HEALTH & SAFETY

- Triton **TT ADMIX** is alkaline.
- Protect hands with rubber gloves.
- Avoid contact with skin and eyes. Should this occur, flush with water.
- Please refer to **TT ADMIX** MSDS for more information.



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