



TechCrete Admix is a permanent waterproofing admixture for concrete and mortar. It forms insoluble crystals in the water-bearing capillaries of the mix, blocking water and ensuring long-term protection.

TechCrete Admix can be used in mortars and surface-applied slurry systems. The moisture and lime in the mix react with the admixture's chemicals to create a barrier that penetrates deep into the concrete's capillary structure.

Full waterproofing typically occurs within 7-10 days, depending on the mix design and curing process. The admixture is effective against both negative and positive water pressure and remains active with each water exposure.

KEY BENEFITS

- Waterproofs for the life of the structure.
- Maintenance free.
- No future re-application.
- Seals present and future cracks up to 1/64" (0.4 mm).
- No VOC's

PHYSICAL PROPERTIES

- Provides excellent waterproofing properties by becoming an integral part of the structure.
- Protects concrete and reinforcement against corrosive waterborne substances.
- Crystalline action is reactivated by contact with water providing long-term additional protection.
- Effective against both positive and negative pressure.
- Non-toxic or tainting.
- Permits early backfilling without requirement for
- Maintenance free.
- Bridges hairline cracks up to 1/64" (0.4 mm).

APPLICATION

TechCrete Admix may be added to the concrete or mortar at either the batching plant or it can be added to the mixer at the job site. It is preferable that TechCrete Admix be added to the dry mix to ensure even distribution prior to the addition of water. If TechCrete Admix is added after the addition of water, mixing must continue for an additional 10 minutes prior to placement of the mix.

CONCRETE CURING

For proper curing of concrete when TechCrete Admix has been used, effort must be made to prevent concrete from drying too fast. This means that the concrete should be kept wet for at least 7 days after the initial pour of the concrete. One method to accomplish this is mist spraying and then covering with polyethylene sheet or curing blankets. Additionally, to ensure proper curing, it is recommended that the surface of the concrete be protected from any adverse environment for the 7 day curing period. Do not use any chemical curing agents in combination with TechCrete Admix unless approved or supplied by Alchemco.

APPLICATION RATE & PACKAGING

Coverage rate: 1 bag / cubic yard of concrete

Packaging: 20 bags / 5-gallon pails

IMPROVED CONCRETE PROPERTIES

	CONTROL	TECHCRETE ADMIX	CHANGE
Initial Setting Time (hr:min)	5:50	7:50	2:00 delay
Final Setting Time (hr:min)	7:20	9:50	2:30 delay
Air Content (%)	1.50	1.50	No change
Slump (mm)	100	100	No change
Compressive Strength @ 28 days (MPa)	31.5	36	17.5% better
Drying Shrinkage @ 56 days	380	340	10.5% better
Water Permeability (m/sec)	9.5x10		93% reduction

SHELF LIFE & STORAGE

Store in a cool, dry place and keep away from all sources of heat and sunlight. The shelf life is up to 24 months if stored in unopened containers and as per recommendations. Please adhere to the same storage advisories when product is being stored on the project site.

PRECAUTIONS

Wear protective gloves, clothing, face and eye protection. If on skin, wash with plenty of water. Move person to fresh air and keep comfortable for breathing. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs, seek medical assistance. Dispose of contents/container in accordance with national regulations.



WARNINGS



HAZARDOUS

May cause irritation to skin. May cause skin to have allergic reaction. May cause serious eye damage. May cause irritation to the respiratory system.

KEEP OUT OF REACH OF CHILDREN!

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor/physician. Rinse mouth.

See Safety Data Sheet for further details regarding safe use of this product. Safety Data Sheets for any Alchemco product may be obtained by contacting:

Alchemco, 3532 Mayland Court, Henrico, VA 23233.

800- 610-2895 or emailing technical@alchemco.com or

**calling: CHEMTREC 800-424-9300 (US)
703-741-5970 (International).**



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