

Trumix LLC

Concrete Admixture Company
PO Box 100367, Irondale AL 35210

Trumix Retarder

Other name: **ACT Retarder**

Granule/Fine Powder of Retarder / Hydration Stabilizer for Concrete, Mortar and Grout

Description:

Trumix Retarder is a chemical admixture for concrete and grout that can plasticize and retard / stabilize the hydration of Portland Cement Concrete and Grout. Trumix Retarder needs to be carefully dosed to avoid prolonged retardation. Trumix Retarder has been proven to work well with different Portland Cements and other type of admixtures. Trumix Retarder should be added at the batch plant. Lab/field trial is always recommended.

Applications:

Trumix Retarder is used to extend the slump life of concrete and grout applications:

- Can be added to the bag of dry concrete or mortar.
- Can be added to ready mix concrete. The Trumix Retarder will provide extended workability to the concrete and will not entrain air in the concrete and grout.
- Trumix Retarder will also act as water reducer and help increase slump of fresh concrete and grout mixes for easy pumping.

Advantages:

Trumix Retarder is granule or fine powder in water soluble bags. Trumix Retarder should be dosed by 0.25 lb to 0.5 lb per cubic yard of concrete. The use of 0.5 lb/yd³ on concrete at ambient / concrete temperature between 90 to 100°F can increase slump and retain slump for up to 2 hours. However, it is necessary to do trial batch to avoid any unwanted retardation and other properties.

Water Reduction and Workability:

Trumix Retarder will help reduce the use of water and get the desired slump or will help workability when batching water is kept the same as control mix.

Trumix Retarder will plasticize concrete, improve cohesion, reduce the excessive bleeding and segregation, and increase strength significantly.

Extended Slump Life:

Trumix Retarder in combination of other Trumix products such as Trumix P200 or Trumix P500 will extend the slump life and workability / plasticity of the mix for 180 minutes or longer at ambient temperature of 70 to 90°F.

Benefits:

Trumix Retarder is a chemical admixture that will help:

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- Hot weather concreting (See ACI 305 document)
- Extend slump life for long haul or delay pouring.
- Enhance pumping of concrete
- Reduce the use of water and get the desired slump or flow
- Increase the slump or flow
- Improve strength significantly

Combination with other admixtures:

Trumix Retarder is compatible with most water reducers, plasticizers, or other concrete admixtures / additives. However, it is always necessary to do trial batches when other admixture(s) are going to be used in combination with Trumix Retarder.

Combination with SCM (secondary cementitious materials) and other powder (such as limestone powder)

Trumix Retarder is compatible with SCM such as fly ash class F or C, slag cement, meta-kaolin, silica fume or limestone powder. A trial batch is recommended to assure the effectiveness of the combined materials in concrete.

Physical Properties:

Color:	White to Off-White Granule or fine powder
Specific Gravity	0.8 – 1.0

Dosage Rate and Mixing Time:

Add 0.25 to 0.50 lb per cubic yard of concrete of Trumix Retarder. Mix at full speed for 5 minutes before discharging the concrete.

Packaging:

Trumix Retarder is available in five-gallon square buckets (20 - 2 lb water soluble bags). Each pallet contains 48 square buckets. Custom weight in water soluble bag is also available upon request.

ACT Retarder is available in 25 Kg bag with plastic liner. Each pallet contains 40 bags of ACT Retarder.