CONEX®

SHRINKAGE COMPENSATING ADMIXTURE

DESCRIPTION

CONEX is a powdered admixture used for compensation and total overall reduction of net shrinkage for Portland Cement concrete. Its functional mechanism is based on the formation of an expansive component. CONEX is an expansive Type G component, which produces a calcium hydroxide platelet crystal system, as specified in ACI 223. CONEX contains no added chlorides or chemicals known to promote the corrosion of steel.

PRIMARY APPLICATIONS

- Flatwork concrete
- Bridge decks
- Parking structures
- Interior/Exterior
- Arena/Artificial skating rinks

- Walls/Parapets
- Storage tanks
- Watertight construction
- Toppings
- Piers

FEATURES/BENEFITS

- The expansion characteristics of CONEX allow for net shrinkage reduction for concrete.
- Use of this admixture does not cause any slump loss and may be used in conjunction with other Euclid Chemical admixtures.
- Will not affect the mechanical strengths.
- It is compatible with the majority of Portland cements.
- CONEX does not affect the air content, set time, or other characteristics of fresh concrete.
- The addition of CONEX should not adversely affect freeze-thaw and salt scaling resistances given that an adequate air void system is provided.
- Expansion process is not through ettringite formation.

TECHNICAL INFORMATION

Physical Properties

PROPERTIES	VALUE
Specific Gravity	2.5-3.0
рН	12 - 13

Appearance: CONEX is a free-flowing fine beige powder designed to be mixed with concrete. Test Methods used to evaluate Conex:

- ASTMC 878
- ASTM C 157 modified in accordance with Technical Bulletin AD-06
- Embedded vibrating strain gauges

For more information please contact your Euclid Technical Sales Representative.

PACKAGING / YIELD

CONEX is Packaged in 5 kg LDPE liner bags wrapped in an outer plastic bag, which must be removed before use.

EUCLID CHEMICAL



SHELF LIFE

1 year in original, unopened package.

SPECIFICATIONS/COMPLIANCES

- Meets ASTM C 494 Type S admixture
- ANSI/NSF STD 61 registered

DIRECTIONS FOR USE

- For best results, use CONEX in concrete with the W/C (water to cement ratio) lower than 0.60.
- CONEX should not be added to the concrete mixture after the cementitious ingredients have been introduced and should not be added directly to the ready-mix concrete truck after the concrete is loaded.
- CONEX can be used in drum mixed and central batched concrete applications. The bags of CONEX must be introduced into the mixer up front JUST before loading the materials. This allows the water to properly moisten the conex ingredients and to properly break up disperse the conex through the grinding effect of the coarse aggregates. Cementitious materials should be introduced at least 60 seconds after the CONEX addition.
- CONEX is packaged in LDPE bags; however, they are wrapped in an outter plastic bag, which must be removed before use.
- Concrete containing CONEX should be mixed a minimum of 10 minutes, at normal mixing speed, after all concrete constituents have been batched to ensure thorough dispersion of all materials.
- Concrete treated with CONEX may be finished and placed in the same fashion as conventional concrete.
- Typical dosage rate of 2-10% bwoc (by weight of cementitious). Before use, test in accordance with ACI 223to
 determine the correct dose needed.
- The safety of the operator needs to be considered when the CONEX is handled.

PRECAUTIONS/LIMITATIONS

- The use of this product requires a minimum 48 hour wet curing period, with maximum performanceobtained after a 7 day curing period. For optimal moist curing efficiency, the use of curing blankets is recommended.
- As soon as the moist curing period is finished, it is recommended to use a curing compound as provided byThe Euclid Chemical Company.
- Preliminary trials should be done to determine the optimum dosage and to ensure CONEX is well dispersed.
- CONEX is sensitive to humidity, free water, and to CO², and should be stored and handled in the same manner as Portland cement. Keep in perfectly sealed, original package and in a dry location.
- Remove outer individually wrapped plastic bag before use.
- In all cases, refer the Safety Data Sheet before use.



WARRANTY: Tremco CPG (India) Private Limited (Formerly known as "Flowcrete India Private Limited") solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Tremco CPG (India) Private Limited (Formerly known as "Flowcrete India Private Limited") no other representations or statements made by Tremco CPG (India) Private Limited (Formerly known as "Flowcrete India Private Limited") no other representations or statements made by Tremco CPG (India) Private Limited (Formerly known as "Flowcrete India Private Limited") no other representations or statements made by Tremco CPG India or its representatives, in writing or orally, shall alter this warranty. Tremco CPG India MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Tremco CPG India product fails to conform with this warranty, Tremco CPG will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any installation of Tremco CPG India products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Tremco CPG India's products for the Buyer's intended ourposes.