SPECIALTY ADMIXTURES

Master Format #: 03 30 00 03 40 00 03 70 00

EUCON™ SRA-XT

SHRINKAGE REDUCING ADMIXTURE

EUCLID CHEMICAL

PRODUCT INFORMATION

PACKAGING

Available in bulk, 275 gal (1041 L) totes, and 55 gal (208 L) drums

SHELF LIFE

2 years in original, unopened container

SPECIFICATION/COMPLIANCES

AASHTO M194
ASTM C494 Type S

TECHNICAL INFORMATION

Specific Gravity: 1.002

Flash Point: 220 °F (104 °C)

Color: brown

Odor: mild

Relative Durability Factor (ASTM C666): 92%

Salt Scaling (ASTM C672): Achieved equal salt scaling resistance compared with the reference concrete mix

DESCRIPTION

EUCON SRA-XT is a ready to use liquid admixture designed to reduce drying shrinkage and the potential for subsequent cracking in concrete and mortar for air entrained concrete. It has been specially formulated to maintain a stable volume of air as well as a reliable air void system. EUCON SRA-XT reduces the surface tension of the meniscus formed at the air-water interface in the pores. This reduces the internal tensile stresses that cause shrinkage of the cement paste. Drying shrinkage can be reduced up to 50% when using EUCON SRA-XT, but a range of 35% - 50% is usually observed. EUCON SRA-XT contains no added chlorides or chemicals known to promote the corrosion of steel.

PRODUCT CHARACTERISTICS

FEATURES & BENEFITS

- Can be used in air entrained concrete
- Drying shrinkage may be reduced up to 50% at one year and beyond, depending on the mix
- Increases the life of the structure
- Decreases maintenance costs and increases the durability of the structure

PRIMARY APPLICATIONS

- Floors, foundations, silos, concrete pipes
- Interior/exterior concrete
- Walls
- Watertight construction
- Skating rinks
- Water purification plants
- Swimming pools
- Underground construction
- Water tanks

PRECAUTIONS/LIMITATIONS

- EUCON SRA-XT has a flash point of 220°F (104°C). EUCON SRA-XT must be handled with care and must not be placed in the presence of an open flame or sparks.
- EUCON SRA-XT may reduce compressive strength up to 10% depending on the concrete mix design.
- EUCON SRA-XT has a potential for set time increase and delayed bleed. Set time increases can be exaggerated by lignin and naphthalene based admixtures. The use of polycarboxylate based admixtures will help to minimize the set time increase of concrete treated with EUCON SRA-XT.
- When additional workability is required for flatwork/hard steel troweled floors use the PLASTOL line of polycarboxylate based admixtures.
- Proper curing methods are required when EUCON SRA-XT is in the mix. It's recommended that concrete treated with EUCON SRA-XT be cured by sheet or a curing compound meeting the requirements of ASTM C1315.
- In all cases, consult the Safety Data Sheet before use.

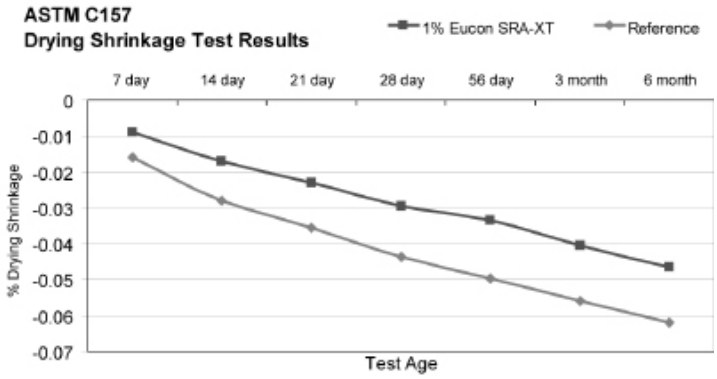
TECHNICAL INFORMATION

PERFORMANCE DATA

These results were obtained under laboratory conditions with materials meeting the specifications of ASTM C157. Changes in the materials, mix design, mixing methods, temperature, and site conditions can affect the dosage response of EUCON SRA-XT. Trial mixes should be run in order to confirm design dosage response and concrete physical requirements are met.

PHYSICAL TESTING PROPERTIES:

Relative Durability Factor (ASTM C666): 92%
Salt Scaling (ASTM C672): Achieved equal salt scaling resistance compared with the reference concrete mix.



Cement content: 517 lbs/yd³ (307 kg/m³)
W/C: 0.50
Air Content: 7.4%
Slump: 5 1/4" (130 mm)

DIRECTIONS FOR USE

For use in air entrained applications, especially those exposed to severe freezing and thawing environments and deicing salts, a maximum EUCON SRA-XT dosage of 1% by weight of cementitious is recommended. When used for non-air entrained concrete, such as interior applications, it is acceptable to use at a dosage of up to 2% by weight of cementitous materials.

When an air entraining agent is used, it should be introduced within the first 50% of water and aggregate addition (before the introduction of the cement). This will allow the air void system to develop before the addition of other chemical admixtures, such as superplasticizers, and EUCON SRA-XT.

Add EUCON SRA-XT after all admixtures have been introduced into the mix. It is also recommended to allow enough mixing time of all other admixtures before the addition of EUCON SRA-XT to ensure concrete homogeneity. The water in the concrete mix should be adjusted to account for volume of EUCON SRA-XT added in order to maintain required water:cement ratio.

EUCON SRA-XT is compatible with all cementitious materials that meet current ASTM C150 standards and all air entrainers, retarders, accelerators and water reducers provided by The Euclid Chemical Company. The air entraining dosage must be determined through performance testing for each individual mix design and set of concrete materials.

*Note: Whenever switching from a mix containing EUCON SRA-XT to one that does not contain EUCON SRA-XT, it is strongly recommended to rinse out each truck to provide consistent air content between batches.

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