

BT-SRA400

CONCRETE SHRINKAGE ADMIXTURE

PRODUCT DESCRIPTION:

Shrinkage normally describes a reduction in the volume of concrete independent of loading is caused by changes in its moisture content. All types of shrinkage may lead to cracking which can pose a risk to the durability of the concrete.

BT-SRA400 is a ready to use liquid admixture, designed to reduce drying shrinkage and the potential for subsequent cracking in concrete. BT-SRA400 reduces the surface tension of the meniscus formed at the air-water interface in the pores. This reduces the internal tensile stresses that causes shrinkage of the cement paste. A drying shrinkage reduction of up to 50% can be observed, but usually in the range of 35 - 50%. BT-SRA400 contains no added chlorides or chemicals known to promote the corrosion of steel.

DIRECTION FOR USE:

Add BT-SRA400 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 BT-SRA400 to ensure concrete homogeneity. To reduce shrinkage, a dosage of 1% to 2% by weight of cementitious should be used. Dosage above the recommended values can be practiced unless adequately tested. Still, the required dosage for a specific job with controlled drying shrinkage should be determined by in-situ trials.

BT-SRA400 is especially recommended for concrete mixtures with a high cement content, for applications under unfavorable weather conditions including heat, wind and sunlight, and for elements with large cross sections. The admixtures are suitable both for ready-mixed concrete and for the production of pre-cast and pre-stressed elements.

PRODUCT CHARACTERISTICS FEATURES & BENEFITS

- Reduces cracking caused by drying shrinkage
- Improves aesthetics, watertightness and durability in concrete elements and structures
- Minimized curling in concrete slabs
- Increases the life of the structure
- Decreases maintenance costs and increases the durability

APPLICATIONS:

- Floors, Foundations, Silos, Concrete pipes
- Interior/Exterior concrete
- Walls, columns
- Skating rinks
- Water tanks, swimming pools, watertight construction

CHEMICAL AND PHYSICAL PROPERTIES:

Appearance:	colorless liquid
Density:	1.13 - 1,20g/cm ³ (20°C)
Initial boiling point:	>200°C
PH:	5 - 7
Flash point:	227 - 279 °C
Solubility:	soluble with water 100%
Viscosity:	104 – 150 mPas
Vapor pressure:	<1 mbar
Explosive properties:	not explosive

BT-SRA400

PACKAGING:

BT-SRA400 is supplied in:

1000 liters IBC-s

25 liters canisters

Self life 12 months, out of direct sunlight and protected from extreme temperatures.

HEALTH AND SAFETY:

In case of frost, the product recovers its properties after progressive thawing and homogenizing by agitation. In case when contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention. Please refer to material safety data sheet for further details.

SALES AND SUPPORT:

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