

SPECIAL ADMIXTURES

Shrinkage Reducing Type

TECHNOBUILD CONE

TECHNOBUILD CONE is a powdered admixture used for the compensation and reduction of shrinkage for Portland cement concrete. Its functional mechanism is based on the formation of an expansive component. TECHNOBUILD CONE is an expansive Type G component, which produces a calcium hydroxide platelet crystal system.

Benefits

- The expansion characteristics of TECHNOBUILD CONE allow shrinkage reduction for concrete.
- Use of this admixture does not cause any slump loss and may be used in conjunction with other TECHNOBUILD Chemical admixtures.
- Will not affect the mechanical strengths.
- It is compatible with the majority of Portland cements.
- TECHNOBUILD CONE does not affect the air content, set time, or other characteristics of fresh concrete.
- Freeze-thaw and Salt Scaling Resistance are not affected given that an adequate air void system is provided.
- Expansion process is not through ettringite formation.

Applications

- Flatwork concrete
- Bridge decks
- Parking structures
- Interior/Exterior
- Arena/Artificial skating rinks
- Walls/Parapets
- Storage tanks
- Watertight construction
- Toppings
- Piers

TECHNOBUILD SRAE Floor

TECHNOBUILD SRAE Floor is a ready to use liquid admixture designed to reduce drying shrinkage and the potential for subsequent cracking in concrete and mortar. TECHNOBUILD SRAE Floor 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. TECHNOBUILD SRAE Floor does not contain added chlorides and will not promote the corrosion of steel.

Benefits

- Can be used in air entrained concrete.
- Typically, shrinkage may be reduced up to 50% at one year and beyond, depending on the cement used.
- Reduces cracking caused by drying shrinkage.
- Increases the life of the structure.
- Decreases expensive maintenance costs and increases the durability of the structure.

Applications

- Floors
- Foundations
- Silos
- Concrete pipes
- Water tanks
- Underground construction
- Interior/Exterior
- Walls
- Watertight construction
- Artificial skating rinks
- Water purification plants
- Swimming pools