



# Technical Data Sheet

## Construction Chemicals

### Riteks™ SRA-157

#### Shrinkage - Reducing Admixture for Concrete

##### General Description

SRA-157 is a liquid shrinkage-reducing admixture, which can be used, in any Portland cement-based product to significantly decrease drying shrinkage.

SRA-157 is not expansive material, but rather functions by blocking capillaries of pore water, which is the major mechanism that causes drying shrinkage in concrete.

SRA-157 when added to concrete at a rate of 2 % by weight of cementitious can reduce shrinkage (ASTM C 157) by up to 80% at 28 days of age and by up to 50% at one year of age.

##### Advantages

- High level of shrinkage reduction that can eliminate cracking due to drying shrinkage in restrained concrete
- Reduces potential for cracking
- Improves aesthetics
- Increases water tightness of the mix
- Improves durability of the concrete
- Reduces creep and curling of slabs
- Decreases carbonation at the surface of slabs

##### Dosage Rate

SRA-157 is recommended for use at a dose of 1.0% to 2.5% by weight of cementitious. For maximum effectiveness, use 2% by weight of cementitious.

For example, a mix containing 600 lbs./yard, 2% equates to 12 lbs./yard or 1.5 gals. /yard. The shrinkage reduction is generally linear with the dosage within the recommended dosage range, so any dosage, within this range can be selected based on the degree of shrinkage reduction desired.

Because local job conditions vary, contact your local Riteks technical service representative for further assistance if using this product outside the recommended dosage ranges or when combining with other admixtures.

##### Technical Note

SRA-157 does not contain calcium chloride or any chloride-based components. It will not promote or contribute to corrosion of reinforcing steel in concrete.

##### Packaging/Storage

Totes • Bulk deliveries

SRA-157 is a potentially combustible material with a flash point of 97 C (207 F). This is substantially above the upper limit of 60 C (140 F) for classification as a flammable material, and above the limit of 93 C (200 F) where DOT requirements would classify this as a combustible material. Nonetheless, this product must be treated with care and protected from excessive heat, open flame, or sparks. For more information consult the Safety Data Sheet.

##### Compatibility

SRA-157 is compatible with all types Portland cement, class C and F flyash, silica fume, fibers, approved air entraining, water reducing, mid-range water reducers, corrosion-inhibitors, silica fume and superplasticizing admixtures.

For best results, each admixture must be introduced separately into the concrete mix.

##### Health and Environmental Data

Before handling or using this product please refer to the Safety Data Sheet for complete health, safety and environmental information. Dispose of waste in accordance with local, state and federal regulations.

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