

TECHNICAL DATA SHEET



CS DENSIFYING ADDITIVE

COLLOIDAL SILICA CONCENTRATE

**ACCELERATES EARLY STRENGTH GAIN OF
CONCRETE WITH MINIMAL EFFECT ON INITIAL SET**

**IMPROVES THE BOND BETWEEN
CEMENT MIX & AGGREGATES**

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DESCRIPTION

CS is a colloidal silica concentrate for use as an internal part of a concrete mix. It ranges in particle size of 1-100 nanometers. Colloidal silica reacts with the free lime in the concrete matrix to make a more dense surface / mix.

BENEFITS OF USE

- Highly reactive suspended crystals fit between cement grains providing a nucleation site for the precipitation of CSH gel
- Accelerates the early strength gain of concrete with minimal affect on initial set
- Improves particle packing at a nano scale, which leads to a denser concrete with less bug holes
- Improves the concrete's microstructure and reduces water permeability
- Improves compressive and flexural strength 10% - 30% depending on dosage
- Helps eliminate effloresce
- Improves the bond between cement matrix and aggregates, which is especially important in glass mixes
- Improves mix cohesion, allowing a flowable GFRC mix to be sprayed on vertical surfaces, and prevents segregation in highly plasticized mixes
- Five gallons of Trinic CS Densifying Additive is equal to the power of one ton of ordinary pozzolans such as silica fume, Metakaolin, bottle Pozz, or VCAS
- Accelerates the strength gain of concrete containing pozzolans — in many cases 50% or more of the cement can be replaced with a pozzolan without the loss of next day strength
- Contains dispersants to prevent clumping

APPLICATION

When adding to a mix, replace up to 5% of your water by weight with CS Densifying Additive

PACKAGING

Quart
Gallon
5 Gallon

COVERAGE / YIELD

Variable

SHELF LIFE / STORAGE

Shelf Life: 1 year

Storage: Keep in sealed container. Do NOT allow to freeze.

DISPOSAL

Follow all federal, state, and local regulations when disposing of this product.

LIMITATIONS

Use in accordance with the information contained in this document. Refer to Trinic's application video and / or call Trinic with any questions.

WARRANTY

Warranty of this product, when used according to the directions, is limited to refund of purchase price, or replacement of product (if defective), at manufacturer / seller's option. Trinic products shall not be liable for cost of labor or direct and/or incidental consequential damages.

SAFETY DATA SHEET

SDS for all Trinic products can be found on our website or by contacting us directly.