

# JOINTLESS FLOORS WITH SHRINKAGE COMPENSATING ADMIX – SCA

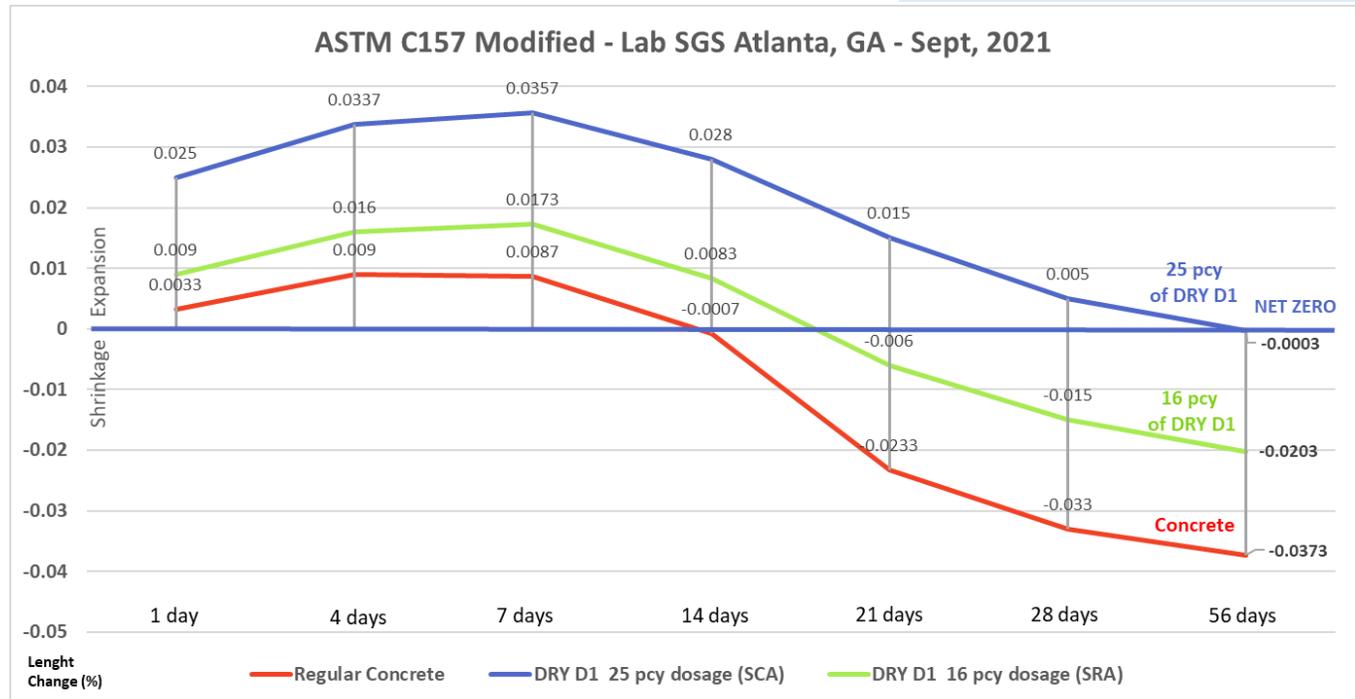
## DRY D1 NG – Sintered Calcium Oxide

It is proven that shrinkage control on concrete flooring is critical to avoid cracking, reduce permeability, increase resistance, and lower joint opening.

It allows larger slabs and fewer joints, reducing costs with maintenance and bringing the technology of industrial flooring to a new level.

### Chimica Edile - Key Figures

- > 40 years of history
- > 40 million squares foot of flooring
- 03 factories with presence in more than 30 countries around the world



## What is DRY D1?

(Table #1)

**DRY D1 is not a blend.** DRY D1 is **high pure and sintered CaO**, that works as an **SCA (Shrinkage Compensating Admix)** reacting only with the water, promoting a controlled expansion before the shrinkage, and achieving net-zero after the curing time.

## Lower dosages

In most cases DRY D1 NG needs only **16-32 pounds per cubic yard** to achieve net-zero shrinkage between 28 and 56 days, which characterizes it as a **Shrinkage Compensating Admix (SCA) type G**.

When using super low dosages like 16 pcy, DRY D1 behaves similar as an SRA (Shrinkage Reducing Admix).



## Difference to Expansive Cement

Expansive cement types are typically used on dosages of 100 pounds per cubic yard. The product is a blend of elements, including cement.

DRY D1 is a unique element that reacts only with water, avoiding drying shrinkage cracking, without any interference on air-entraining or other agents, providing zero shrinkage with no effects on concrete structure.

## Systems and mix design

DRY D1 can be part of any system depending on the mixed design defined by the engineering. It has been used for years with **Steel or Synthetic Fibers** on post-tensioned, prestressed, steel mesh slabs on the grade with great success on extended joint spacing slabs with **minimum joint openings**.



## Standards and Guidelines

**ASTM C157 modified** captures early-age and drying deformation; it is easy to operate and economical, when SCAs demonstrate different behavior than SRAs mixes. (Table #1)

Other related standards and guidelines are ACI 223, ASTM C878, ASTM C845, and ACI 301F.

## Simple to use and install

- Typically sold in 33lbs water-soluble bags, DRY D1 can be easily handled on batch plants or mixed on-site with great versatility.
- It can be used with other elements like plasticizers, air entrainment, corrosion inhibitors, retarders, water reducers, hydration stabilizers because it is an element that reacts only with the water.
- It works perfectly in hot or freezing weather conditions.
- Effective both indoors like warehouses and outdoors on pavements and tilt-up construction.

## Mix Design Assistance, Field Service, and Quality Control

Chimica Edile works with the world's most outstanding specialists in the mix design. They are ready to offer any assistance to discuss and improve your system.

We also offer field services to monitor, test, and report your project.

**DRY D1 is simple, very effective, and economical.**

**Chimica Edile USA** is now in the United States to attend to America's fast-growing demand for jointless industrial flooring.

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