

# SUPERFLO 1443SCC

## DESCRIPTION

**SUPERFLO 1443SCC** is a faster setting high-range water-reducing admixture using new and superior technology for concrete. It is designed to facilitate the placing and finishing of Precast or Prestressed concrete that is highly flowable and workable with greatly accelerated strength and setting characteristics

## ADVANTAGES

- Reduces water content needed for a given workability (12-40%)
- Improves surface aesthetics and reduces bug holes.
- Improves the quality of concrete by decreasing water-cementitious ratio.
- Increases high early and ultimate strengths both compressive and flexural.
- High durability and increased density.
- Reduces damage caused by freezing and thawing.
- Reduces surface bleeding.
- Reduces cracking, creep and shrinkage.
- Reduces segregation and increases cohesiveness.
- Improves finishability and workability of concrete.
- Improves bond strength to the steel.
- Reduces permeability and salt penetration.
- Higher productivity, reduced labor and reduced curing costs.
- Ideally suited for use in self consolidating concrete mixes.
- No Viscosity Modifying Admixture needed for self consolidating concrete.
- Better finished surfaces than concrete produced with a Viscosity Modifying Admixture.

## SPECIFICATIONS

Conforms to:

- ASTM C 494 Types A and F
- AASHTO M 194 Types A and F
- CRD C 87 Types A and F
- All other federal and state specifications

*Ultra smooth surfaces can be obtained using **SUPERFLO 1443SCC** and proper mix design practices for self consolidating concrete.*

## DOSAGE RATE:

**SUPERFLO 1443SCC** is recommended for use at a dose of 3 to 26 fluid ounces per 100 lbs. (196 to 1697 ml per 100 kg) of cementitious to meet the requirements of ASTM C 494 Type A water-reducing and Type F high range water-reducing admixture. When formulating mixes for self consolidating concrete, consult with your local **DarCole Products, Inc.** technical service representative. Use of **SUPERFLOW1443SCC** allows the user to minimize cement contents while maximizing surface appearance.

## TECHNICAL NOTE

- Does not contain calcium chloride or any chloride-based components.
- Will not promote or contribute to corrosion of reinforcing steel in concrete.
- Conforms to the minimum chloride ion limits published by current construction industry standards.

## DIRECTIONS

**SUPERFLO 1443SCC** should be added with initial mixing water or incorporated with the final water at the end of the batch sequence. It is not unusual to experience significantly **lower** air entrainment dosage requirements (50-75%) when compared to conventional high-range water reducers.

## SHELF LIFE

**SUPERFLO 1443SCC** may be shelved for 18 months.

## COMPATIBILITY:

**SUPERFLO 1443SCC** is compatible with all types of Portland cement, class C and F fly ash, silica fume, fibers, approved air entraining, and water-reducing admixtures. **SUPERFLO 1443SCC** can be used in white, colored and architectural concrete. For best results, each admixture must be introduced separately into the concrete mix.

## STORAGE

May freeze below 35 degrees Fahrenheit (2 degrees Celsius). While freezing does not harm **SUPERFLO 1443SCC**, precautions should be taken to protect it from freezing. If it should freeze, thaw at 45 degrees Fahrenheit and reconstitute with mechanical agitation. **DO NOT USE PRESSURIZED AIR FOR AGITATION.**

## PACKAGING

Available in 55 gallon drums, 275 gallon totes and bulk delivery.

**Concrete spread measurements exceeding 28 inches can be obtained using SUPERFLO 1443SCC with water to cementitious ratios as low as .35**

## DISCLAIMER

To the best of our knowledge, the information provided in this publication is reliable. Users should make their own tests to determine the suitability of these products for their own particular purposes. Darcole Products, Inc. makes no warranty of any kind, express or implied, including those of merchantable and fitness for purpose. The responsibility of DarCole Products, Inc. for claims arising out of breach of warranty, negligence, strict liability, or otherwise are limited to the purchase price of the materials.



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