

# DSA 110

## Description

*DarCole Synthetic Air 110* is a synthetic surfactant derived from fatty acids used as an air entraining concrete admixture. *DSA 110* introduces millions of uniformly sized ultra stable air bubbles. These air bubbles act as ball bearings in the mix, greatly improving the plasticity and workability of concrete.

## Advantages

- Far more resistant to freeze/thaw cycles
- More resistance to surface deterioration caused by de-icing chemicals
- Improves workability and plasticity creating a smoother, more even finished surface
- Reduces water content necessary, surface bleed, and segregation, and honeycombing
- Improves durability of hardened concrete

## Application

The recommended dosage range of *DSA 110* is 0.25 to 4 oz per 100lbs of cement, however there is no standard dosage rate for air entrainment.

*DSA 110* dosage rates will vary depending on the materials used and job requirements. The exact dosage rates will vary depending on mix design, and other admixtures/materials used. For volumetric admix tank dilution ratios, please contact mixer manufacturer. Contact a DPI representative for further technical assistance and dosage rates.

## Compatibility

*DSA 110* is compatible with all types of Portland cement, Class C & F fly ash, silica fume, fibers, and approved water reducing and air entraining admixtures. Contains no added chlorides or chemicals known to promote corrosion of steel. Must be dispersed separately, but is compatible with most admixtures.

## Specifications

Conforms to ASTM C-260  
Conforms to AASHTO M-154

## Packaging

Available in 5 gallon pails, 30/55 gallon drums, 275 gallon totes, and is delivered by tanker trucks for bulk purchasers.

## Limitations

May freeze below 35 degrees Fahrenheit. If product freezes, use mechanical agitation to reconstitute once thawed. Shelf life: *18 months*

## Disclaimer

To the best of our knowledge, the information 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 other-wise are limited to the purchase price of the materials.



1940 US Hwy 41 South  
Sebree, KY 42455

Phone: (270) 826-6499 Toll Free: (800) 327-6565

Fax: (270) 831-2288

Website: [www.darcole.com](http://www.darcole.com)