

DARCELL

Description

DarCell Foaming agent is a liquid, highly concentrated solution of surfactants. When used with a foam generator and water supply, *DCF* will produce a consistent pre-foam that is stable under alkaline conditions and suitable for producing foamed concrete. Foamed concrete is produced by a controlled addition of pre-foam to a grout mortar mixture.

Advantages

- Use in Flowable fill or CLSM to enhance flow distances
- Foamed concrete is very lightweight, retains its volume, and doesn't shrink after curing
- Ideal for use in void filling, roof screeds, and trench reinstatement
- Semi-structural support for embankments, bridge abutments, arches, and tunnels
- Lightweight thermal insulating characteristics
- Elimination of fire risks, health hazards, and progressive erosion/collapses in underground voids
- May not be suitable for use with coarse sands
- No pre-dilution is required for use with water-foam generators, however air-foam generators will require a dilution of 1:25 and fitted with a proportional feeder unit to correctly dispense

Application

The recommended dosage range of *DCF* is 16 to 64 ounces per cubic yard of foamed concrete for most under water placement applications. The exact dosage rate will vary depending on mix design, local job conditions, 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

DCF is compatible with all types of Portland cement, Class C & F fly ash, silicafume, 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-869

Standard specification for Foaming agents used in producing preformed foam in cellular concrete

Packaging

Available in 5 gallon pails, 30/55 gallon drums, 275 gallon totes

Limitations

May freeze below 32 degrees Fahrenheit. If product freezes, use mechanical agitation to reconstitute once thawed, however, product can be harder to dispense or unusable after freezing.

Shelf Life: 12 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.



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