

# SINTA<sup>®</sup> FDS2219

Fluid delivery system (Formerly Grace Microfiber<sup>®</sup> FDS)

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## Product Description

SINTA<sup>™</sup> FDS2219 is a fluid delivery system that contains SINTA<sup>™</sup> M2219—a synthetic polypropylene fiber for concrete plastic shrinkage control. It allows automated dispensing of fibers into concrete. An accurate and recordable dosage of fibers can be delivered in an efficient and safe manner.

The product is engineered specifically for rapid and uniform dispersion of fibers in concrete during batching.

## Uses

SINTA<sup>™</sup> FDS2219 is used in the concrete batching plant for automated addition of fibers into concrete. The fluid delivery system is used in any application where SINTA<sup>™</sup> M2219 are used to reduce cracking due to plastic shrinkage and improve durability.

Specifically, applications include but are not limited to, slab on grade, elevated slabs, pavements, overlays, sloped walls, pools, shotcrete, stucco, precast and prestressed concrete products.

## Product Advantages

SINTA<sup>™</sup> FDS2219 offers an easy, efficient and safe process for batching a measured dose of SINTA<sup>™</sup> M2219. It allows uniform multi-dimensional dispersion throughout the concrete matrix. The dosage into concrete is assured and can be documented on the batch ticket just like other admixtures. Since the product batching in concrete is automated through a GCP dispenser system, it presents an opportunity for improving productivity and safety at a ready mix plant.

Additionally, in several tests conducted with SINTA<sup>™</sup> FDS2219, contractors have experienced flexibility in handling concrete during the pour, and an easier and smoother finish.

## Product Advantages

- Automated dispensing of fiber reinforcement into concrete
- Safety
- Assured fiber dosage
- Batch ticket confirmation
- Process efficiency improvement
- Improved productivity
- Same quality as MicroFiber

## Mixing Requirements and Addition Rates

SINTA<sup>™</sup> FDS2219 may be added to the mixer any time during the batching process.

The standard range of addition of SINTA™ FDS2219 is 0.3 to 0.9 gal/yd<sup>3</sup> (equivalent of 0.5 to 1.5 lbs of SINTA™ M2219 per cubic yard) as shown in the accompanying “Addition Rates” table. One gallon of SINTA™ FDS2219 contains 0.8 gallons of water.

### Compatibility with Other Admixtures

SINTA™ FDS2219 is compatible with all admixtures. Each admixture should be added separately to the concrete mix.

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### Packaging and Dispensing

SINTA™ FDS2219 is available in totes and is added directly to the mixer during batching using a SINTA™ FDS2219 Dispensing System.

### Storage

SINTA™ FDS2219 will freeze and must be kept at temperatures above 40 °F (4 °C). If freezing does occur, allow product to completely thaw prior to using.

Do not use mechanical agitation.

### Addition Rates

SINTA™ FDS2219 addition rates typically vary as given below.

SINTA™ M2219 LBS/YD <sup>3</sup>	SINTA™ FDS2219 GAL/YD <sup>3</sup>
0.50	0.30
0.75	0.45
1.00	0.60
1.50	0.90

### Architects’ Specifications

SINTA™ FDS 2219 does not impact the specifications approved for SINTA™ M2219. Fibers shall be 3⁄4 in. (19 mm) polypropylene fibers as supplied by GCP Applied Technologies. The design engineer or architect shall specify required dosage rate. SINTA FDS2219 shall be used in strict accordance with the supplier’s recommendations and within time as specified in ASTM C94. The fiber shall comply with ASTM Designation C1116 Type III 4.1.3 and with applicable building codes. Standard ACI 302 procedures for placing, finishing and curing shall be followed when using SINTA™ FDS2219

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