SINTA® FDS 2219
Fluid delivery system (formerly Grace Microfiber® FDS)

Product Description

SINTA® FDS 2219 is a fluid delivery system that contains MicroFiber—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.

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

Uses

SINTA® FDS 2219 is used in the concrete batching plant for automated addition of fibers into concrete. The fluid delivery system is used in any application where MicroFiber 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.

Advantages

SINTA® FDS 2219 offers an easy, efficient and safe process for batching a measured dose of MicroFiber. 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® FDS 2219, contractors have experienced flexibility in handling concrete during the pour, and an easier and smoother finish.

Mixing Requirements and Addition Rates

SINTA® FDS 2219 may be added to the mixer any time during the batching process.
The standard range of addition of SINTA®FDS 2219 is 0.3 to 0.9 gal/yd$^3$ (equivalent of 0.5 to 1.5 lbs of MicroFiber per cubic yard) as shown in the accompanying “Addition Rates” table. One gallon of SINTA®FDS 2219 contains 0.8 gallons of water.

Compatibility with Other Admixtures

SINTA®FDS 2219 is compatible with all admixtures. Each admixture should be added separately to the concrete mix.

U.S. Patent No. 6,569,233

Packaging and Dispensing

SINTA®FDS 2219 is available in totes and is added directly to the mixer during batching using a SINTA® FDS 2219 Dispensing System.

Storage

SINTA®FDS 2219 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®FDS 2219 addition rates typically vary as given below.

<table>
<thead>
<tr>
<th>MICROFIBER LBS/YD$^3$</th>
<th>SINTA® FDS 2219 GAL/YD$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.50</td>
<td>0.30</td>
</tr>
<tr>
<td>0.75</td>
<td>0.45</td>
</tr>
<tr>
<td>1.00</td>
<td>0.60</td>
</tr>
<tr>
<td>1.50</td>
<td>0.90</td>
</tr>
</tbody>
</table>
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