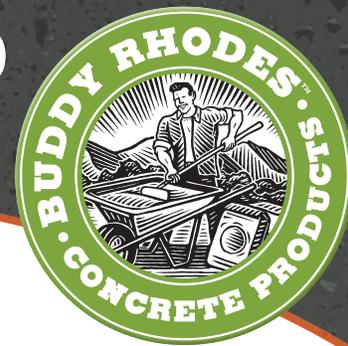


Buddy Rhodes™ Acrylic Fibers AC50

Monofilament Fibers for Shrinkage Control & Reinforcement



Product Overview

Buddy Rhodes™ Acrylic AC50 Fibers are modified polymer fibers that greatly enhance the performance and durability of concrete. They drastically reduce plastic shrinkage cracking, provide secondary reinforcement and increased impact resistance. Acrylic AC50 Fibers are 1/4" (6 mm) in length and are the least visible of our fiber offerings, making them best suited for face mixes that require additional reinforcement. They also provide excellent trowelability when blended with either the Buddy Rhodes™ Craftsman, GFRC or ECC mixes. Acrylic fibers are not recommended to be used in a fluid castable mix, as they will render the mix too stiff to pour.

Acrylic Fibers AC50 Features

- Enhances performance & durability
- Provides secondary reinforcement
- Eliminates plastic shrinkage cracking up to 100%
- Alkali resistant & non-corrosive
- Insoluble in water
- No fiber protrusion for easy finishing
- High impact resistance
- Excellent bond with concrete paste

Using AC50 Acrylic Fiber

Typical Dosage: Acrylic fibers are used in small doses by weight. In most applications, use up to 20 grams (.05 lb) of fiber for every 50 lb bag of Buddy Rhodes™ concrete mix. Higher dosage will result in lower workability in the mix.

Mixing: Acrylic fibers are monofilament and have more surface area than bundled fibers like AR glass. They can easily choke up a concrete mix if they are overdosed or not carefully blended in. Some users find blending the fibers in the mix water first provides optimal dispersion. Others prefer to slowly blend the fibers into the concrete slurry later in the mixing process. Some experimentation is suggested to determine the best solution for a specific mix design.

Finishing: If fibers are visible in the cured concrete surface, they can be easily burned off with a propane torch, or similar. Use caution and follow all safety instructions.

Product Specifications

Packaging:

1 lb (0.45 kg), 8 lb (3.6 kg), & 40 lb (18.1 kg)

Material: Modified Acrylic

Filament Diameter: 12-15 μ

Fiber length: 1/4" (6 mm)

Density: 110-130 pcf (1,762 - 2,082 kg/m³)

Fiber Count (fiber/kg) approx: 680,000,000

Decomposition Temperature: 626° F / 330° C
(AC50 does not melt)

Specific Gravity: 1.17 g/m³

Elastic Modulus: >5.5 GPa

Acid & Alkali Resistance: Excellent

Dispersity Rate: Excellent

Color: Off White



Download our Catalog of Concrete Products and Techniques available at:
www.buddyrhodes.com

Call us at: (877) 706-5303 or (610) 252-5800