

DF-50

Description

DarCole Fiber-50 staple fiber reinforces fresh concrete by creating a mechanical bond within the concrete, helping to reduce plastic shrinkage and minimize early crack development. *DF-50* enhances the overall durability and integrity of the concrete by reducing cracking that can weaken the structure over time. Concrete containing *DF-50* exhibits lower permeability, a smoother finished surface, improved impact resistance, and greater long-term performance, making it a cost-effective solution that adds value to any concrete project.

Advantages

- Enhances the strength, durability, and longevity of concrete
- Provides dependable secondary reinforcement for improved structural integrity
- Controls plastic shrinkage and helps prevent early-age cracking
- Non-corrosive and resistant to harsh alkaline conditions
- Delivers permanent performance without dissolving in water
- Ensures a smooth surface finish with no visible fiber protrusion
- Boosts impact resistance and toughness
- Integrates seamlessly with the concrete paste

Application

For standard applications, a recommended dosage of one bag per cubic yard of concrete is typically sufficient to achieve effective reinforcement and crack control. For specialized projects or applications with unique performance requirements, consult your DPI representative for dosage recommendations. *DF-50* may be introduced either at the batching plant or directly at the job site; however, it should not be added as the first component in the mix. To ensure uniform fiber distribution, the concrete should be mixed at full speed for a minimum of five minutes after adding *DF-50*.

Compatibility

DF-50 is compatible with a wide variety of concrete applications, including slab-on-grade, precast, shotcrete, stucco, decorative concrete, and other specialty mixes. It integrates easily into conventional concrete systems without affecting placement, pumping, or finishing procedures, making it a versatile solution for both standard and specialized construction projects.

Specifications

Conforms to ASTM C-94

Packaging

Available in cartons (50 bags/carton)

Limitations

DF-50 is designed to remain fully embedded within the concrete mix, resulting in no visible surface fiber protrusion. It is compatible with conventional pumping and placement equipment and can be finished using standard methods, including power troweling, hand troweling, broom finishes, and decorative colored concrete applications.

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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