

NFORCE FIBER™



Benefits

- Increases Adhesion, Cohesion & Workability
- Mitigates Plastic Shrinkage Cracking
- Outperforms Conventional Technologies
- Exceptional Dispersability of Shotcrete Mix
- Reduces Rebound, Sag & Sloughing
- Improves Surface Finish & Finishability (non-protruding)
- Improves Work Site Safety (no torch required)
- Overall Cost Effectiveness
- Sustainable Product

Compatibility & Effect on Compressive Strength

NForce-Fiber™ is 100% compatible with all common concrete admixtures and basic components.

Slump:
Neutral or may result in very slight decrease in slump.

Compressive Strength:
Neutral or may result in very slight increase in compressive strength.

Properties

Material	Bast Fiber
Specific Gravity	1.4
Available Length	19mm (3/4")
Tensile Strength	~250 Mpa (~36 ksi)
Elongation at Failure	1.6%
Moisture Absorption	<8%
Thermal Degradation	~180°C (356°F)
Alkali Resistance	Very Good

NForce-Fiber™

NForce-Fiber™ is used in applications that require micro-reinforcement. Manufactured from a specialty plant feedstock, NForce-Fiber™ is engineered to provide long-term stability and durability of the fiber in the alkaline environments of concrete / cement products. Using our unique technologies, it is processed to ensure strong chemical bonding to concrete / cement matrices. NForce-Fiber™ is used in applications such as concrete flatwork, toppings, shotcrete, precast concrete, well cementing and other composite systems.

Dosage

NForce-Fiber™, added into concrete during batching at a dosage of 1.5 - 2 kg/m³, significantly reduces restrained plastic shrinkage cracking. Total crack area and maximum crack width are both reduced significantly compared to plain concrete.

Attention

NForce-Fiber™ is packaged in shreddable bags which are designed to adequately disintegrate in wet concrete when sufficiently wetted and subjected to mixing and mechanical shear action during the concrete mixing. This bag can be added into wet concrete unopened only if sufficient wetting, mixing, and dispersion within the concrete mix is ensured. Pretest prior to use if in doubt.

Storing & Dispensing

NForce-Fiber™ is available in 0.454 kg (1.0 lb) paper bags. Manual dispensing by tearing, opening and pouring contents of bag is the normal method. This bag is not water soluble; it is a shreddable bag designed to adequately disintegrate in wet concrete only when sufficiently wetted and subjected to sufficient mixing and mechanical shear action in the concrete mix. This bag can be added into the wet concrete unopened only if sufficient wetting, mixing, and dispersion within the concrete mix is ensured. Observe concrete discharge to verify full bag disintegration and no visible bag fragments in the concrete. Bagged NForce-Fiber™ should be stored in a dry area. Pretest prior to use if in doubt.

Precautions / First Aid

- Avoid contact with eyes
- Wash thoroughly after handling
- Use with adequate ventilation
- Avoid creating dust in handling
- Wear gloves, goggles, and dust mask
- In case of contact with eyes, rinse immediately with plenty of water and seek medical attention

Disclaimer

Product usage is affected by many factors including storage, method and conditions of application and use. User testing is ESSENTIAL to determine suitability of product for intended method of application and use. Seller's SOLE WARRANTY is that the product has been manufactured to manufacturer's specification. No oral or written information or advice shall increase this warranty to create new warranties. Seller's SOLE LIABILITY is to replace product proven defective. In no event shall the Seller be liable for any consequential indirect or other damages, whether arising from negligence or otherwise.