

Below is a brief description of some of our most popular concrete admixtures and structural fibers. For more detailed information regarding these and additional admixture products; please refer to the tech data sheet and safety data sheet sections.

Concrete Admixtures

Chryso EnviroMix 159 – Multi-Range Water Reducer

EnviroMix 159 is a high performance chemical admixture using proprietary polycarboxylate technology combined with innovative chemical engineering to provide the means to produce high performance concrete offering normal to accelerated setting characteristics, improved workability & finishability, and improved strength & development properties.

Chryso Nutralset

CHRYSO® NutralSet® TC is a ready-to-use liquid solution manufactured to control the hydration process in Portland cement concretes and concrete wash water.

CHRYSO® NutralSet® TC coats the hydrating cement particles in the concrete and wash water, resulting in the suspension of the hydration chemical reaction.

Chryso Optima 258

CHRYSO® Fluid Optima 258 is a new generation high range water reducing admixture based on patented CHRYSO® technology, formulated specifically to retain workability in extreme conditions while allowing for very high early strengths. CHRYSO® Fluid Optima 258~ is formulated specifically to enhance rheology and strengths characteristics of High and Ultra-High Performance Concrete (HPC & UHPC).

Chryso Poretite 110

Chryso Poretite 110 is an efflorescence controller admixture that fills the concrete pore with hydrophobic particles. These particles inhibit permeation of water through cement paste capillaries.

Poretite concrete mixes offer the following benefits:

- Increases concrete strength compared to an identical control mix without PoreTite
- Reduces concrete water permeability and absorption –providing greater freeze-thaw durability
- Improves concrete chemical resistance and durability –providing protection from deicers
- Costs less compared to the time and expense associated with topical sealer application
- Eliminates discoloration, delamination, and other common problems found with topical sealers
- Offers enhanced concrete finishing properties – concrete is noticeably creamier
- Provides superior primary and secondary efflorescence control

Chryso Turbocast NCT

Chryso Turbocast NCT is a ready to use aqueous solution of non-chloride accelerators which provides the benefits of accelerated set and enhanced early strength. Turbocast NCT also allows for cold weather concreting and/or early finishing.

Chryso CI 100

Chryso CI 100 is a ready to use aqueous solution containing a minimum of 30% calcium nitrite by mass which chemically inhibits corrosion of steel embedded in concrete. Chryso CI 100 converts defective ferrous oxide on reinforcement steel to a more stable ferric ion species less susceptible to corrosion, therefore preventing staining, cracking and spalling of concrete. Chryso CI 100 may accelerate concrete setting times.

Chryso Air 260 Ultra

CHRYSO® Air 260 Ultra is an aqueous solution specially formulated for use as an air entraining admixture for concrete. It introduces millions of uniformly sized and spaced air voids throughout the concrete mixture. Concrete containing these types of uniformly distributed air voids has been proven far more resistant to freezing and thawing than plain concrete. CHRYSO® Air 260 Ultra improves concrete's rheology, finishability and resistance to freeze-thaw and surface deterioration caused by deicing chemicals.

LiquidDow Calcium Chloride – Accelerator

LIQUIDOW™ can reduce set time by as much as two-thirds, even in cold weather. It also improves workability and reduces bleeding, allowing earlier final finishing. Concrete acceleration with LIQUIDOW™ facilitates quick and economical completion of jobs.

E5 Internal Cure

E5® Internal Cure is the fifth element to concrete, and solves the most common problems with on-site concrete production. E5® Internal Cure simplifies the specification and completion of concrete applications for all parties by ensuring a quality finish that is sustainable, quantifiable and duplicatable each and every time; exceeding customer's expectations for performance, value and simplicity. E5® Internal Cure admixture gives control back to the finisher, even in inclement weather conditions. No additional surface water is needed.

E5 Liquid Fly Ash

E5® Liquid Fly Ash (LFA) integral admixture is a silicate-free, proprietary blend of nano-silica that serves as a pozzolan addition, employed in conjunction with an adjusted quantity of coarse and fine aggregates to maintain the concrete properties and volume of fly ash in the mix design. E5® LFA sustains strength requirements, improves workability, and decreases permeability and efflorescence. The result is a more consistent high-quality, user friendly concrete regardless of geography, season, or application.

E5® LFA is engineered to exact standards to deliver predictable results every mix, unlike recycled fly ash materials which vary greatly in availability, cost, composition, and quality. E5® LFA improves air quality and worker safety in the ready-mix plant, compared with inconsistent and more difficult to employ CCR (Coal Combustion Residue) alternatives.

E5® RCS Technology increases pozzolanic reactivity to form permanent, insoluble bonds in Portland Cement Concrete (PCC). E5® LFA reduces air entrainment issues commonly associated with fly ash use. Consistency in production and placement improve finish quality and extend the in-service life of concrete.

Concrete Structural Fibers

Euclid Tuf-Strand SF – Macro Synthetic Fiber

TUF-STRAND SF is a patented polypropylene and polyethylene synthetic macrofiber successfully used to replace steel fibers, welded wire mesh and conventional reinforcing bars in a wide variety of applications. TUF-STRAND SF fibers comply with ASTM C1116, Standard Specification for Fiber Reinforced Concrete and Shotcrete, and are specifically designed to provide equivalent tensile and bending resistance to conventional reinforcement requirements. Concrete reinforced with TUF-STRAND SF will have three-dimensional reinforcing with enhanced flexural toughness, impact and abrasion resistance and will also help mitigate the formation of plastic shrinkage cracking in concrete.

Forta-Ferro Fiber

FORTA-FERRO is an easy-to-finish, color blended fiber, made of 100% virgin copolymer/polypropylene consisting of a twisted bundle non-fibrillating monofilament and a fibrillating network fiber, yielding a high-performance concrete reinforcement system. FORTA-FERRO is used to reduce plastic and hardened concrete shrinkage, improve impact strength, and increase fatigue resistance and concrete toughness. This extra heavy-duty fiber offers maximum long-term durability, structural enhancements, and effective secondary/temperature crack control by incorporating a truly unique synergistic fiber system of long length design. FORTA-FERRO is non-corrosive, non-magnetic, and 100% Alkali proof!

Fiber Force 150

FiberForce 150 is a monofilament micro fiber manufactured from 100% virgin homopolymer polypropylene resins. FiberForce 150 fibers are used primarily as plastic shrinkage crack-control reinforcement in concrete. The finishability attributes associated with this technology (limited to no exposed surface fibers) make FiberForce 150 a great choice in residential applications.

Fiber Force 350

FiberForce 350 is an ultra-fine denier fibrillated microfiber manufactured from 100% virgin polymer resins and is designed for crack-width control for concrete due to shrinkage and temperature restraint. FiberForce 350 has finishing attributes similar to polypropylene monofilament microfibers with limited surface fibers.

Fiber Force 750

FiberForce 750 is a blend of synthetic macrofibers. FiberForce 750 combines a mechanically embossed tape macrofiber with a modified fibrillated macrofiber. The modified fibrillated portion has been engineered so the main fibrils are enlarged to increase tensile properties. FiberForce 750 is unique blend of synthetic macro/macrofibers that has excellent distribution and finishing properties.

Fiber Force 1000 HP

FiberForce 1000 HP is a synthetic macro concrete fiber developed from a specific blend of polypropylene and polyethylene resins that are continuously embossed for enhanced bond. FiberForce 1000 HP has an optimized embossment pattern and is drawn to increase tensile capacity.

Helix 5-25 Micro Rebar

The unique, twisted design of Helix Micro Rebar allows for efficient tensile stress re-distribution within the concrete prior to concrete cracking. The result is a significant increase in the concrete's strain capacity and pre-crack properties. Unlike rebar and other forms of reinforcement, Helix Micro Rebar provides proactive reinforcement which engages the concrete before large cracks form.