GreenCanvas

Expansive Component for Sustainable Concrete

Non-Shrink Grout Made with GreenCanvas

Non-Shrink Grouts are typically manufactured and sold as a blended cement product in bags. These bags are then shipped for use at a construction site where they are mixed with water to form a non-shrink grout to be used to: set rebars and other embedments, connect precast members, level foundations, fill grout filled pory walls, set machinery paver t piles, set masonry wall and units, fill masonry and equipment, seal joints, provide bearing for structural members, etc. Job site mixing is used for small applications. Bulk premixed non-shrink grouts from a concrete producer delivered in trucks offer many benefits for larger applications.

Non-shrink grouts are used in interior and exterior applications, wet-dry exposures and for submerged applications. Related non shrink applications include mortars and flowable fills.

History - Non-shrink grouts are continually evolving and improving construction material. Conventional grouts shrink losing full bearing support, and allowing moisture to seep into the joint where deterioration can occur. Shrinking grouts also weaken the bond between adjoining members often resulting in complete de-bonding. Non-shrink grouts were developed to cure these problems and in so doing created some problems of their own, Early generation non-shrink grouts developed their expansion mechanism from the addition of an additive that caused the formation of gas bubbles, or from the addition of metallic materials that expand via oxidation.
Second generation non-shrink grouts used an expansive cement to achieve its non-shrink properties thereby providing a much improved product. The expansive mechanism could be the formation of ettringite crystals, additional gas, etc., but unfortunately there are problems associated with these methods. Recently the American Concrete Institute has recognized and approved a new shrinkage compensating expansive material designated as a "Type G" expansive component. Type G non-shrink grouts are the new and improved generation of grouts that provide superior service and construction benefits.

Why GreenCanvas? - GreenCanvas is a Type G component that when added to a standard grout produces a non-shrink grout. Green Canvas forms its expansive properties by the formation of platelets. These platelets are transparent in the non-shrink grout and provide a chemical and mechanical bond to the elements being grouted. Type G non shrink grouts eliminate the problems inherent in previous generation grouts. GreenCanvas non-shrink grouts provide a superior installation with immediate and long term benefits.

Benefits - When larger quantities of non shrink grout are required, GreenCanvas is available in bulk quantities allowing your ready mix supplier to provide you with batch mixed non-shrink grout that is both inorganic and non-metallic at a cost advantage over previous generation bagged non-shrink grouts.

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