GreenCanvas

Expansive Component for Sustainable Concrete

GreenCanvas in Gunite Applications

GreenCanvas is designated as a Type "G" Expansive Component by the American Concrete Institute. As an expansive component that can be added to any mix design, GreenCanvas is versatile. GreenCanvas can be used to manufacture shrinkage-compensating concrete, concrete that is considered as "reduced shrinkage to meet specifications that have maximum allowable shrinkage parameters, non-shrink grouts, shotcrete applications, and also gunite applications,

The use of gunite as a seal or within a structural application is common and problems associated with dry-shrinkage are common in these applications. The use of a minimal reinforcement can provide some relief, but the most effective solution would be the use of a mix design that will counter i the expected shrinkage. This will be achieved using GreenCanvas

Not only will GreenCanvas provide a mix that substantially remains at a constant volume, it can also provide both a chemical bond and a mechanical bond to the surface that receives the gunite. These bonds will provide for increased life-cycle and sustainability of the application by increasing the resistance to abrasion as well as lowering the permeability of the surface. This will naturally keep deleterious materials from gaining a pathway into the surfaces that are finished with GreenCanvas in the mix.

GreenCanvas is essentially transparent in any mix, as it does not change any of the chemical or physical characteristics as may be common to other products, Green Canvas has as its expansive mechanism, the formation of platy crystals from a portion of the calcium hydroxide that is formed during the hydration of any type of concrete mix

Since GreenCanvas is cementitious, the amount used should be added to the total cementitious in order to maintain the specified w/cm ratio. GreenCanvas will not alter the setting times. A mix with GreenCanvas should be treated the same as a mix without it, including an adequate curing of the finished application.

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