

Mallard Creek Polymers Tychem® 3100D Yield Modifier Additive

Category : Other Engineering Material , Additive/Filler for Polymer

Material Notes:

Tychem® 3000/3100D is well suited, but not limited to, dry-cast pavers and blocks, SCC, HPC, pre-cast and down hole cementing. Tychem® 3000/3100D is compatible under the most extreme conditions and maintains its stability with a variety of other common admixtures such as polycarboxylates and naphthalene/lignosulfonates. Tychem® 3000 is a unique aqueous emulsion that is a hydrophobically modified alkali swellable styrene-butadiene copolymer. Its performance features in cementitious mix designs aid in hydration. Its ability to capture water and release it aids in efficient and full hydration without effecting workability, as opposed to surface curing, which is less effective. This phenomenon takes full advantage of the cements ability to create strength and reduces plastic and dry shrinkage; which in turn reduces the stresses that produce cracks. To protect the integrity of the concrete, the internal curing process reduces permeability and efflorescence. Tychem® 3000 has no adverse effects on early strength and increases late strength, see Chart 1 & 2 (based on mortar mix in Table 1). It can also increase the water to concrete ratio in both ready-mix/pre-cast and dry-cast/vibrocompaction, which aids the internal curing process. Recommended initial dosing is 3-5 oz./100 wt. Storage and Handling: Protect from freezing. Ideal storage temperature is 22°C (72°F). Read the Tychem® 3000/3100D Material Safety Data Sheet before handling, storing, or using this product. Information provided by Mallard Creek Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Mallard-Creek-Polymers-Tychem-3100D-Yield-Modifier-Additive.php

Physical Properties	Metric	English	Comments
Density	0.122 - 0.125 g/cc	0.00442 - 0.00450 lb/in ³	
Solids Content	98 - 100 %	98 - 100 %	

Mechanical Properties	Metric	English	Comments
Compressive Strength	24.5 MPa	3550 psi	19%, 0.44 w/c w/Tychem 3000
	27.6 MPa	4000 psi	21%, 0.44 w/c w/Tychem 3000
	27.6 MPa	4000 psi	16%, 0.44 w/c w/Tychem 3000

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