

XPC-1

CEMENT EXPANSION ADDITIVE

Description

XPC-1 is cementitious powder material that provides for expansion of cement during the setting phase. XPC-1 provides for early expansion of cement during the setting phase, provides improved bonding to pipe and formation, reduces micro annulus problems, enhances zonal isolation and prevents cement volume losses due to shrinkage. A retarded form is available as XPC-1 HT that has twice the neat set time as XPC-1.

Properties

Form: Powder	Color: White
Odor: None	Specific Gravity: 2.7
Bulk Density: 75 lb/ft ³	Water Requirement: 0.5 gal/3%BWOC, 0.8 gal/6% BWOC
Solubility: 0.3% in water @ 20°C	
Absolute Volume: 0.044 gal/lb	

Application

XPC-1 is normally used at concentrations of 3 % to 6 % BWOC in conjunction with salt for temperature ranges of 60°F (16°C) to 170°F (77°C) in API Class G and H cements. Expansion properties using XPC-1 alone are approximately twice the amount experienced with slurries containing salt only as an expansion aid under the same conditions. Maximum expansion properties can be realized by using a combination of XPC-1 and salt. For higher temperatures a retarded form of this product is available as XPC-1 HT, or CR-180 and CR-270 retarders can be used to control pumping time. Some gelation problems may be experienced during mixing and through lab testing of slurry designs is recommended.

Compatibility

XPC-1 is compatible with most cement additives.

Handling/Storage

Store in a cool, dry and well ventilated area. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. See Material Safety Data Sheet (MSDS) for handling and hazard data.

Packaging

XPC-1 is shipped in 50 or 100 lb bags.