

INFORMATION

CA-R2 LOW TEMPERATURE RETARDER

DESCRIPTION

CA-R2 is a free-flowing black powder and a highly-refined organic cement retarder. CA-R2 is recommended for all API cements and performs well with pozzolan, high gel, or salt cements.

APPLICATION

CA-R2 is particularly effective in applications where other retarders have given erratic thickening time results or viscosity humps (high viscosity after heat up). CA- R1 is recommended for those API cements or cements with salt or high gel concentrations that don't respond well to other cement retarders.

MAJOR ADVANTAGES

The application of CA-R2 cement retarder provides the following advantages:

MIX WATER - CA-R2 can be used with water ranging from fresh to salt saturated. FREE FLOWING - Permits even distribution throughout dry blended cements. TEMPERATURE - CA-R2 is most effective at BHCT ranging from 140° F (60° C) to 220° F (104° C).

CONCENTRATION - CA-R2 is normally recommended at 0.3 - 1.0% by weight of cement. VISCOSITY - CA-R2 provides increased dispersant properties, which reduce the need for additional dispersants and eliminate viscosity "humps" (false sets). FLUID LOSS - CA-R2 enhances the effectiveness of fluid loss additives.

THICKENING TIME - CA-R2 offers more predictable thickening time results, particularly with salt cement.

CONCENTRATION

Listed below are the required concentrations of CA-R2 for a 2 1/2-4 hour thickening time with API Class G cement mixed with fresh water at 15.9 ppg at 1.9 s.g.

DEPTH (Ft)	BHCT (°F)	CA-R2 Loading %
8,000	140	0.3-0.4
10,000	167	0.5-0.6
12,000	197	0.6-0.8
13,000	215	1.1-1.3

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RECOMMENDED TREATMENT

CA-R2 can be dry blended with the cement or mixed with the slurry mix water prior to cementing.

Care should be exercised to insure even distribution of CA-R2 throughout the cement or cement mix water. If CA-R2 is added to the mix water, 10-15% extra mix water should be treated at the proper rate in case more mix water is used than anticipated. The mix water should be circulated for a minimum of 1-2 hours prior to mixing cement.

SAFETY

Normal safety precautions should be followed when handling CA-R2. Goggles and face masks should be worn to prevent unnecessary eye contact and inhalation. If eye contact does occur, wash thoroughly for a period of not less than 15 minutes.

PACKAGING

CA-R2 is packaged in 50 lb (USA) and 25 kg (Europe, Africa, Middle East) export quality sacks.

CA-R2 is a Messina trademark

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