**SCR-500L™ Retarder**

**High-Temperature Retarder**

SCR-500L™ high-temperature retarder is a synthetic material designed for use in slurries exposed to high bottomhole circulating temperatures (BHCTs) ranging from 200° to 330°F (93° to 165°C).

**Features**

When applied properly in cement slurry design, SCL-500L retarder can increase the predictability of thickening time compared to most other HPHT retarders.

The thickening time of a slurry with SCR-500L retarder decreases proportionally as the temperature increases. This low sensitivity makes SCR-500L retarder especially effective in temperatures ranging from 210° to 240°F (98 to 115°C), where other high-temperature retarders are very sensitive to small concentration changes and low-temperature retarders are ineffective.

**Applications**

- Because it is a synthetic, SCR-500L retarder can develop strength quicker than lignosulfonate retarders and has better batch-to-batch reproducibility. These properties make SCR-500L retarder especially suitable for cementing jobs with wide temperature ranges (BHCT to top of liner) in which compressive strength must be developed at temperatures much lower than the BHCT.

- Although SCR-500L retarder was designed for use at temperatures between 200° and 240°F (93 to 115°C), it can be used at other temperatures with just a few modifications. These modifications and other specifications for its use are outlined in Bulletin CMA-99-015, posted on the HalWorld website.

- At least 0.2% by weight of cement (BWOC) of SCR-500L retarder should be used in a dry blend to help minimize blend variations and keep thickening times at acceptable levels.

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**SCR-500L™ Retarder—Product Specifications**

<table>
<thead>
<tr>
<th>Part No. (5-gal bucket)</th>
<th>101002045</th>
<th>Form</th>
<th>Pale red to tan water-based liquid</th>
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<tr>
<td>Part No. (53-gal drum)</td>
<td>101002044</td>
<td>Specific Gravity</td>
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<td>Part No. (Bulk)</td>
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<td>pH</td>
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<td>Part No. (50-lb)</td>
<td>101002315</td>
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**Compatibilities**

SCR-500L™ retarder is compatible with the following additives: CFR-3™ dispersant, HR®-25 retarder, Halad®-100A additive, Halad®-344 additive, Halad®-413 additive, Microblock™ additive, Silicalite™ additive, and SA-541™ additive, and SSA-1™ and SSA-2™ additives.

**Benefits**

SCR-500L high-temperature retarder can deliver extra stability in cementing applications at temperatures above 200°F (93°C).

*Figure 1: Premium (16.4 lb/gal) cement at 200°F*

For more information on the benefits SCR-500L™ Retarder can bring to your cementing operations, contact your local Halliburton representative.