



## **CA-R4L**

### **LOW TEMPERATURE LIQUID RETARDER**

#### **DESCRIPTION**

CA-R4L is a high quality organic liquid retarder and dispersant for neat or low percentage gel cement. It is compatible with most API Class A and Pozzolan cements.

#### **APPLICATION**

CA-R4L has been successfully used to 14,000 foot depths at static bottom hole temperatures up to 205°F. The major advantage of CA-R4L is that it helps reduce WOC times when cementing long strings of casing.

#### **RECOMMENDED TREATMENT**

Recommendations for a mixing program should be made only after a complete well analysis has been made and thorough study made of all the factors affecting the cementing operation.

CA-R4L is normally used at an average concentration of 2 to 25 gallons per 100 sacks of cement.

#### **LIMITATIONS**

Like most liquid cement retarders, CA-R4L will freeze at temperatures below 32° F (0° C), therefore, CA-R4L should be protected from sustained exposure to freezing temperatures.

#### **PACKAGING**

CA-R4L is normally packaged in export quality 55 U.S. gallon steel drums or 5 U.S. gallon pails.

#### **MISCELLANEOUS**

Prices and delivery schedules are available from any Messina office, area representative, or distributor.