

**LONG-TERM RETARDANT
TECHNICAL DATA SHEET – PART 2**

Ref: FSM 5160

Product Name: _____

Submitting Company: _____

Formulation Identification: _____

Mix Ratio: _____ lb/gal H₂O **OR** _____ gal/gal H₂O (Fill in one blank.)

Provide the data, graphs, or tables listed below for each mix ratio for which evaluation has been requested.

Measure viscosity using a Brookfield rotational viscometer (or equivalent) at 60 rpm. Use spindle 2 for viscosities between 1 and 500 centipoise and spindle 4 for viscosities greater than 500 centipoise.

1. **A graph of mixed retardant viscosity, at a temperature of 70 °F (21 °C), versus time after mixing. At a minimum, include viscosity values measured at 10 minutes, 30 minutes, 45 minutes, 60 minutes, and 24 hours after mixing.**
2. **A table of mixed retardant viscosity versus temperature of water used for mixing. At a minimum, include viscosity values measured at 10 minutes, 30 minutes, 1 hour, and 24 hours after mixing. Provide data for product mixed with tap water at the following temperatures: 40 °F (4 °C), 70 °F (21 °C), and 100 °F (38 °C).**
3. **A table of mixed retardant viscosity at 70 °F (21 °C), 1 hour and 24 hours following mixing versus the mix ratio. Provide data for the product concentrations as follows: 0.25, 0.5, and 0.75 percent below the target mix ratio and 0.25, 0.5, and 0.75 percent above the target mix ratio. For example, if the target mix ratio is 2.0 percent, include data for solutions at 1.25 percent, 1.5 percent, and 1.75, 2.0 percent, 2.25 percent, 2.5 percent, and 2.75 percent.**
4. **Other data or information related to product stability and/or flow characteristics that might be helpful during the evaluation.**

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