



# Technical Data Sheet

## VERSACOAT HF

### *Product Description*

**VERSACOAT HF** surfactant functions as a wetting agent and secondary emulsifier when used in conventional, low fluid-loss, high-lime systems in combination with **VER-SAMUL\*** emulsifier. In this application, the product oil-wets barite and drill solids to prevent water-wet solids; improves thermal stability, rheological stability, filtration control and emulsion stability; and improves the fluid's resistance to contamination. This specific version of the **VERSA** system secondary emulsifier has been formulated with a higher 'flash point' for areas that need this added safety feature.

**Applications:** Emulsifier and wetting agent; improve electrical stability; and filtration control

**Treatments:** Typical concentrations range from 2 to 8 lb/bbl depending on the oil/water ratio. Higher temperatures will require a higher treatment, from 10 to 16 lb/bbl.

Daily maintenance treatment are required. Pilot testing is suggested to determine the actual treatment required to obtain the desired properties.

**Temperature:** **VERSACOAT HF** has a static bottom hole temperature window up to 420°F. This temperature value is based upon normal drill solids content and target product concentrations. As the solids content increases, this will cause strain on the product's ability to perform. Also, as laterals are lengthened, mechanical stresses are increased, which will negatively impact emulsifiers' performance.

### KEY BENEFITS

- Wide application, including higher lime, conventional, and lower-lime, relaxed **VERSA**
- Improves emulsion stability
- Improves oil-wetting and prevents water-wet solids
- Maintains stable oil-in-water emulsion and helps prevent water in HTHP Filtrate
- Improves thermal stability, rheological stability, filtration control and contamination resistance of oil base muds.
- Effect at counteracting the adverse effects of water contamination such as high viscosity, low-emulsion stability and water-wet solids.

#### Key Properties

|                     |            |
|---------------------|------------|
| Color               | Dark amber |
| Physical Form       | Liquid     |
| Sg                  | 0.90 - 1.0 |
| Solubility in water | Insoluble  |
| Packaging           | Drum/Totes |

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