

VERSACOAT NA

VERSACOAT* NA organic surfactant is a multi-functional additive that serves as an emulsifier and wetting agent in the VERSA oil mud systems. This particular version has been formulated with a much higher flash point, for use in areas that require this added safety feature. Secondary benefits include improved thermal stability and high-temperature, high-pressure (HTHP) filtration control. The product is effective over a wide temperature range and in the presence of contaminants, and for reducing the adverse effects of water contamination.

Typical Physical Properties

Physical appearance..... Dark amber, viscous liquid
 Specific gravity0.89 – 0.92
 Flash point..... 150 - 200°F (65 - 93°C) (PMCC)

Applications

VERSACOAT NA surfactant functions as a wetting agent and secondary emulsifier when used in conventional, low-fluid-loss, high-lime systems in combination with VERSAMUL* 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.

Concentrations for initial formulations range from 1 to 3 lb/bbl (2.85 to 8.6 kg/m³) when used as a wetting agent, with occasional daily treatments of ~0.063 lb/bbl (0.18 kg/m³).

VERSACOAT NA surfactant functions as the primary emulsifier when used in relaxed-fluid-loss, lower-lime systems, in combination with VERSAWET* wetting agent. In this application, the product forms a stable, oil-in-water emulsion and provides a degree of oil-wetting.

Concentrations for initial formulations range from 2 to 8 lb/bbl (5.7 to 22.8 kg/m³) when used as the primary emulsifier, with daily treatments of ~0.125 lb/bbl (0.36 kg/m³). High-temperature applications and some "light" mineral oils require higher concentrations of VERSACOAT NA surfactant.



Advantages

- High flash point product
- Wide application, including higher-lime, conventional, and lower-lime, relaxed VERSA systems
- 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
- Effective at counteracting the adverse effects of water contamination such as high viscosity, low emulsion stability and water-wet solids

Limitations

- Environmental restrictions concerning the use of oils and oil-base fluids should be considered since VERSACOAT NA surfactant is used in conjunction with oil.

Toxicity and Handling

Bioassay information is available upon request.

Handle as an industrial chemical, wearing protective equipment and observing the precautions as described in the Material Safety Data Sheet (MSDS).

Packaging and Storage

VERSACOAT NA surfactant is packaged in 55-gal (208-L) drums.

Store in a dry, well-ventilated area. Keep container closed. Keep away from heat, sparks and flames. Store away from incompatibles.

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