

# Technical Data Sheet PRO HD Riser Flush™

## **DESCRIPTION**

**PRO HD Riser Flush™** is a proprietary blend of selected water-soluble surfactants specifically designed for the clean-up of casing, drill pipe, and surface equipment during completion operations. PRO HD Riser Flush is specifically designed to work on synthetic based drilling fluids.

TYPICAL PROPERTIES	
Appearance	Yellow liquid
Ionic Character	Ionic/Anionic
Specific Gravity	1.03
Manufacturing	Compliant with ISO QA (Quality Assurance) testing standards.
ph (1% Solution)	8.0-10.0
Flash Point	>201°F
LC 50 Testing	PPM: >321,604 ≤ 0.1, Pass

#### **ADVANTAGES**

Non-flammable and non-corrosive

Biodegradable, non-toxic, and non-hazardous

Disperses oil and oil coated solids in to small droplets

Reduces or eliminates the need for filtering brine completion fluids

Leaves a water wet surface after displacement with no oily film on metal surfaces

When used as directed, does not form or create a surface sheen on receiving water

## **APPLICATIONS**

**PRO HD Riser Flush** is used to displace mud systems prior to completion operations and to thoroughly clean tubing O.D. and casing I.D. for gravel packing operations. **PRO HD Riser Flush™** should be used at a 3 - 15% concentration with water or brine and circulated as a "pill" to remove residual mud. Total "pill" volume should be calculated to maximize time of contact while being circulated in turbulent flow. If more specific application recommendations are required, a **PROCOR™** engineer will be available upon request.

#### **DIRECTIONS FOR SEAWATER DISPLACEMENT**

- Circulate well with seawater until the returning water appears clean.
   Mix a "pill" containing 3-15% PRO HD Riser Flush™ in seawater. Pump the "pill" in turbulent flow.
- 2) Circulate the pill around and continue circulating until the water behind the pill appears clean.
- 3) Displace the seawater with a clean completion fluid.

## GENERALIZED PROCEDURE FOR DIRECT DISPLACEMENT OF MUD WITH COMPLETION FLUID

- 1) Pump a 30 50 barrel "spacer" containing +/- 2-4 pounds per barrel Xanthan.
- 2) Immediately follow the "spacer" with a +/-100 barrel "pill" (dependent on displacement volume) containing 3-15% **PRO HD Riser Flush™** in either seawater (or freshwater, if desired). Pump in turbulent flow.
- 3) Follow the **PRO HD Riser Flush™** "pill" with a 30 50 barrel "pill" containing +/-2-4 pounds per barrel Xanthan.
- 4) Follow the last "pill" with clean completion fluid. Discard all the "pills" before final filtering of the completion fluid.

## **PACKAGING**

**PRO HD Riser Flush™** is packaged in 550 gal tote