

RAPID SURF™ 500

WELLBORE CLEANER

Description:

Rapid Surf 500™ is a surface-active well displacement fluid additive that flocculates solids, removing them from surfaces and prevents the redepositing of these solids onto tubing and casing. As a wellbore cleanup, Rapid Surf 500™ cleans downhole pipe and casing, preventing solids from interfering with production potential of well.

TYPICAL PHYSICAL PROPERTIES:

Appearance	Amber Liquid
Specific Gravity	0.90 to 0.92
Density, lbs./gal.	7.52 (typical)
Pour Point	15° F
Flash Point	>200° F (PMCC)
Solubility	Oil Soluble Water Dispersable

Application:

Rapid Surf 500™ effectively removes drilling mud, pipe dope, sand, oil, polymer, and other solids from drill pipe, tubing, casing and surface equipment and washes them away from pipe surfaces. When used as a sweep or spacer before solids-free completion fluids, the product prevents the brine from becoming contaminated greatly reducing the potential for formation damage due to fine solids plugging formation or perforations. Rapid Surf 500™ can be mixed in fresh, seawater or brine and cleans up both water based and oil based mud deposits.

Recommended Treatment:

Batch: To remove solids from brine, add 1% Rapid Surf 500™ (by volume) to the completion fluid (1 drum per 130 barrels). Mix until the product is well dispersed. Then allow the fluid to rest in a quiescent state until the soft flocculated mass settles or floats. Skim off the top or decant the fluid from above or below the sludge. The brine is substantially free of particle sizes greater than 5 microns.

Displacement: To prepare a displacement fluid, add 1% of Rapid Surf 500™ (by volume) to 250 to 1000 barrels of seawater or other clean water. Displace drilling fluid at a maximum circulating rate with one or two hole volumes of seawater or until the water demonstrates a low level of turbidity as measured in NTU values. After pumping the water with Rapid Surf 500™ down the drill pipe and up the annulus, pump the treated return fluid throughout the entire surface system (pumps, hopper, lines, valves and solids control equipment). Dispose of the system after treatment by displacing with clean water. Displace with completion fluid.