

REDI-THIN

POLYMERIC DELOCCULANT

DESCRIPTION

REDI-THIN is a specially-formulated low-molecular-weight polymeric compound designed to function as a viscosity reducer and degellant in polymer-based or polymer-extended drilling fluids. REDI-THIN has been developed for optimum functionality and compatibility in Messina REDI-COAT™ and POLYTHERM™ drilling fluid systems. REDI-THIN is available in convenient liquid form, as well as in dry form. Although the liquid is recommended for most applications for ease of handling and mixing, the dry product is often desirable for cold climate use or in remote areas where shipping and stocking of bagged material is preferred.

APPLICATION

REDI-THIN is added to REDI-COAT, POLYTHERM, or other polymer systems when required to reduce or control gel strengths or viscosity. In REDI-COAT systems, REDI-THIN is most frequently used to maintain desirable ranges of viscosity and gel strength in high-density fluids, or in systems which require rapid corrective treatment to remedy the effects of polymer/solids imbalance caused by incorporation of large amounts of drilled solids in the absence of sufficient REDI-COAT encapsulator. In many cases, low doses of REDITHIN are also used in unweighted REDI-COAT systems to tailor flow properties and gels without over-thinning or dispersing the system.

In POLYTHERM high-temperature polymer systems, REDI-THIN's excellent thermal stability allows control of viscosity and gel strengths in a variety of situations at bottom-hole temperatures up to at least 450° F/232° C.

RECOMMENDED TREATMENT

In unweighted fluids, generally 0.2 to 0.8 ppb (0.57 to 2.28 kg/m³).

In weighted systems, generally 0.5 to 2.0 ppb (1.43 to 5.70 kg/m³).

In high temperature applications dosages may be higher. Please consult a Messina technical service representative for specific recommendations.

FEATURES/BENEFITS

- High efficiency; low dosage requirements.
- Resistant to contamination from salts, hardness, and cement.
- Provides controlled deflocculation in REDI-COAT and POLYTHERM systems while maintaining desirable non-Newtonian rheological profiles.
- Essentially non-toxic in waste mud discharges. Contains no chromium or heavy metals.
- Does not color mud filtrate. Clear filtrate facilitates titration analysis.
- Hydrothermal stability in excess of 450° F/232° C.



MIXING INSTRUCTIONS

REDI-THIN-L liquid can be added to the mud system through a hopper or on the surface of a well-agitated tank. REDI-THIN-P powder should always be mixed through a hopper, at a rate not exceeding 15 minutes per sack. In all cases, the product should be added slowly and in synchronization with total circulating time. Care should be taken to avoid overtreatment, as REDI-THIN is very effective at low concentrations.

PACKAGING

REDI-THIN-L (liquid) is available in drums or pails of 50 lb, 25 kg, and 250 kg net weight. REDI-THIN-P (powder) is available in heavy duty bags of 25 kg or 50 lb net weight.

REDI-THIN, REDI-COAT, and POLYTHERM are Messina trademarks.

