UNIFLAC S

Universal solid fluid-loss additive for cement

APPLICATIONS
- Cementing
- Use in mix water (fresh to salt-saturated water)

BENEFITS
- Low cost per barrel of cement
- Savings from less time spent waiting on cement

FEATURES
- Low sensitivity to cement brands and temperature
- Applicability in temperatures from 50 to 500 degF [10 to 260 degC]
- Applicability in densities from 10 to 24 lbm/galUS [1,198 to 2,875 kg/m³]
- Low concentration requirements
- Availability for concentrations from 0.1 to 0.8% by weight
- Excellent slurry rheology
- Compatibility with Schlumberger retarders
- Simplified slurry design
- Simplified logistics—few additives required

UNIFLAC® S solid additive (D167) is a universal and cost-effective solution for fluid-loss control for all cementing applications. The additive is a custom-made third-generation solid polymer that can be predissolved in the mix water or dry blended with the cement. Its robust properties make slurry design very simple and produce predictable results in the field from the surface casing to the liners.

LOW SENSITIVITY AND SYNERGY
Test results show the very low sensitivity of UNIFLAC S additive to small temperature or concentration variations. It is not sensitive to cement brands at bottomhole circulating temperatures (BHCTs) from 50 to 500 degF [10 to 260 degC].

Synergy between Schlumberger retarders and UNIFLAC S additives, such as UNISET® additive, provides additional operational benefits. Early compressive strength (CS) development reduces waiting-on-cement time. The concentration of retarder required to achieve a desired thickening time is reduced.

Required UNIFLAC S concentration to achieve API fluid-loss of 50 mL/30 min is easily predictable at different temperatures and slurry densities.
UNIFLAC S additive has low sensitivity to various cement brands. The concentration required to achieve a fluid-loss value of 50 mL/30 min remained consistent with different cement brands.

UNIFLAC S additive has no retarding effect at low bottomhole temperatures. These 15.8-Ibm/galUS [1,893 kg/m³] slurries were tested at 70 degF [21 degC].

A lower D161 retarder concentration is required to achieve a desired thickening time with UNIFLAC S additive for a similar fluid-loss value of 50 mL/30 min. These Class H slurries were tested at 350 degF [177 degC].

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