

# UNISET LT

## Low- to medium-temperature unified cement retarder

### APPLICATIONS

- Cementing operations in temperatures ranging from 100 degF to 250 degF [38 degC to 121 degC]

### BENEFITS

- Lowers cost per barrel of cement
- Reduces waiting-on-cement time
- Lowers retarder concentration by as much as two-thirds
- Simplifies slurry design and logistics by reducing the number of additives to transport and store

### FEATURES

- Long, predictable thickening times
- Low sensitivity to cement brands
- Low sensitivity to temperature variations
- Lower sensitivity to concentration changes than conventional retarders
- Compatibility with UNIFLAC\* fluid-loss additive
- High consistency from batch to batch
- Compatibility with fresh water or saltwater
- Typical concentrations: 0.05 to 0.30 gal/sk

### Consistent, predictable performance

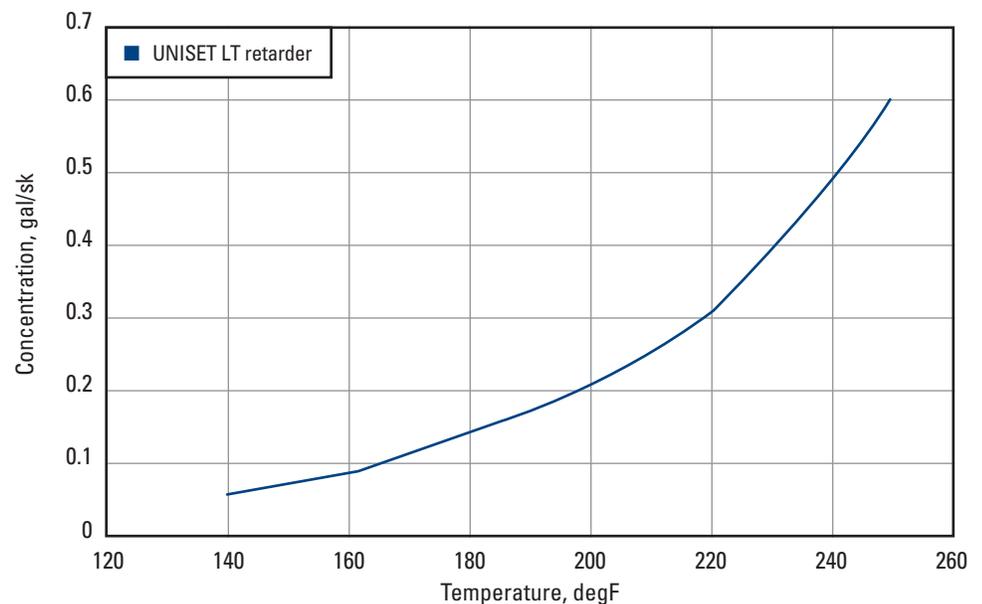
Because retarders are such crucial slurry components, predictable and reliable results are essential on every job. Schlumberger UNISET\* LT liquid additive is suitable for all low- to medium-temperature cementing applications and is compatible with most cementing additives. Contrary to conventional lignosulfonate retarders, the performance of this synthetic product is consistent from batch to batch and easily predictable in temperatures to 250 degF [121 degC].

### Synergy reduces additive concentrations

When UNISET LT retarder is used with the UNIFLAC unified fluid-loss additive in UniSLURRY systems, the synergy between the additives allows the retarder concentration to be reduced by as much as two-thirds. The result is a cementing solution that is both high in quality and cost-efficient.

### Rig time savings through innovative chemistry

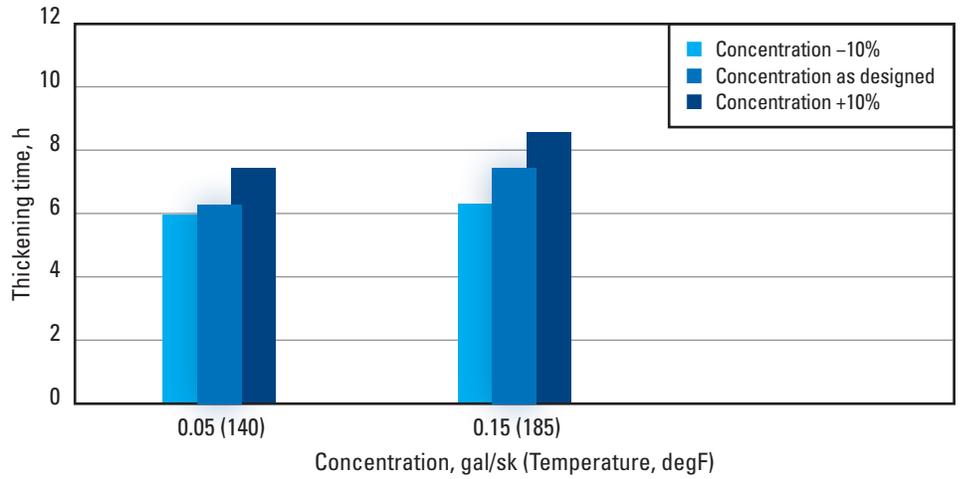
Innovative chemistry makes the UNISET retarder extremely robust and less affected by cement quality. Since it tolerates variations in temperature and concentration better than conventional retarders, UNISET retarder helps prevent over retardation and lost rig time. Full temperature range UNISET LT retarder is complemented by UNISET HT retarder for medium- to high-temperature applications. Together, they cover the range of applications from 100 degF to 450 degF [38 degC to 232 degC].



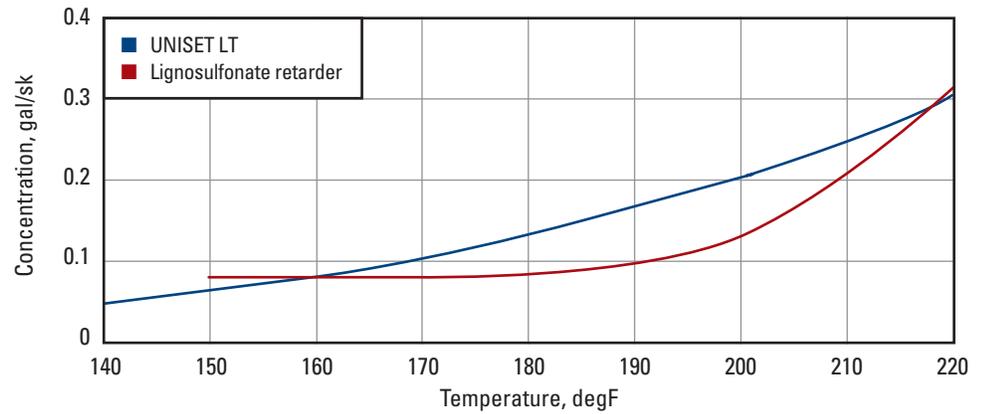
*This graph shows the UNISET LT retarder concentration required for a 6-hr thickening time at various temperatures when the retarder is used in conjunction with the UNIFLAC additive.*

# UNISET LT

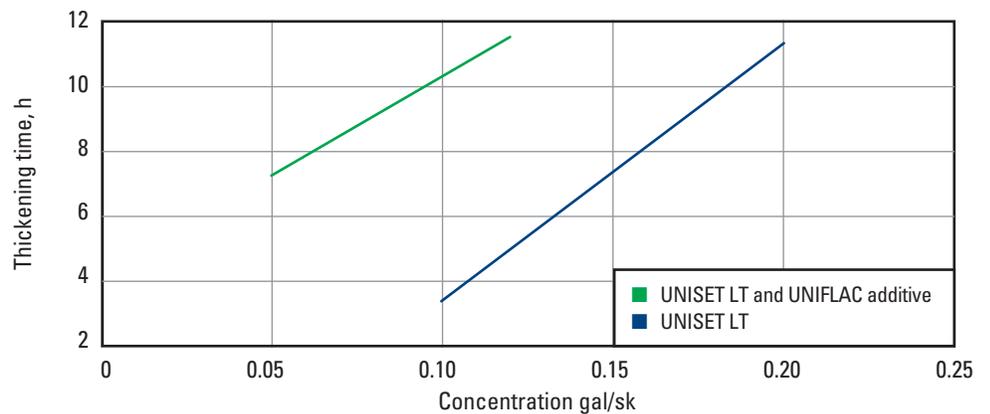
UniSLURRY technology simplifies job execution because designed slurry properties can be obtained with fewer cement additives used in smaller quantities. It also simplifies inventory maintenance and reduces storage requirements



The UNISET LT retarder is robust and more tolerant than conventional retarders of variations in concentration or temperature. These features result in a safer cement job.



UNISET LT retarder concentrations for a given thickening time exhibit a monotonic response to increasing temperatures; conventional lignosulfonate retarder concentrations do not. This monotonic response makes slurry optimization easier and cement placement safer.



The synergy of the UniSLURRY family allows UNISET LT concentration to be decreased by as much as two-thirds when it is used with UNIFLAC fluid-loss additive.

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**Schlumberger**