Thixo-CEM 14

TECHNOLOGY

Thixotropic cement slurry is a system that has the capability to develop a self-supporting gel structure. This structure carries part of the hydrostatic pressure of the cement column, thereby reducing the pressure against the formation. This is significant in a low gradient situation where heavy fluid losses would otherwise be experienced and/or fractures induced due to the high overbalance. Shear breaks the gel structure, making it possible to pump a thixotropic cement formulation. High stability at downhole temperature and its efficiency is not affected by our synthetic retarder SGR-13.

Dosage for 14.0 ppg: 5-7% BWOC

The 14.0 ppg slurry reaches a thickness of 40 Bc after roughly 3 hours at 130F and 70 Bc after 4 hours under 4000 Psi (no retarder added).

ADVANTAGES

- Reduces non-productive time with rapid and high strength development.
- Lowers costs by decreasing mud lost to formation hazards.
- Limits environmental impact.

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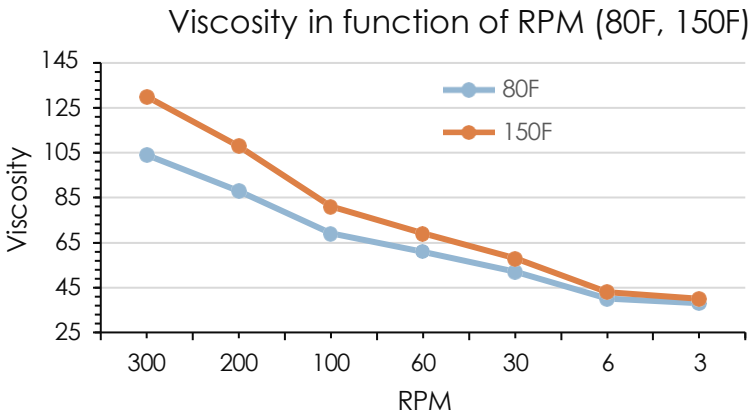
EFFICIENT THIXOTROPIC CEMENT AGENT AT HIGH TEMPERATURES, COMPATIBLE WITH RETARDER, CURES SEVER LOSSES

PHYSICAL AND CHEMICAL PROPERTIES *Thixo-CEM 14*

	Physical Status	Appearance	Color	Density	pH
Thixo-CEM 14	Solid	Powder	Light-Gray	2.3	7

RHEOLOGY (14.0 PPG SLURRY)

rpm	300	200	100	60	30	6	3	PV	YP
@80°F	104	88	69	61	52	40	38	52.5	51.5
@150°F	130	108	81	69	58	43	40	73.5	56.5



GEL STRENGTH (14.0 PPG SLURRY)

	Time	3 rpm
@80°F	10 sec.	40
	10 min.	185
@150°F	10 sec.	47
	10 min.	143

COMPRESSIVE STRENGTH

- **Temperature: 130F**
- **Pressure: 4000**
- **Compressive strength after 8h: 1190**
- **Compressive strength after 12h: 1424**
- **Compressive strength after 24h: 1689**
- **Transit time: 1h 7min**