

BJ Services' Liquid Stone<sup>®</sup> cement system eliminates many of the challenges associated with today's most demanding oilfield cementing applications. The Liquid Stone technology is applicable onshore and offshore and has been successfully applied in many oil producing regions of the world.

## What is Liquid Stone?

Liquid Stone cement slurry is a unique pre-mixed blend that, unlike conventional cement slurries, is storable; it may be kept on-site in a liquid state for a period of many weeks or months prior to use. This offers cost savings as well as logistical advantages, especially in remote or extremely tight locations.

Liquid Stone technology ensures density control and slurry properties without the need for sophisticated cementing equipment at the well site. The slurries have a density range of 8.1 ppg to 20.0 ppg with standard extenders and weighting agents and can be used within a wide temperature range – up to 450°F (232°C) bottomhole circulating temperature (BHCT).

	RPM	80°F (26°C)	189°F (87°C)
Rheology	@ 600	324	153
	@ 300	201	92
	@ 200	147	66
	@ 100	93	39
	@ 6	18	9
	@ 3	12	3

## Liquid Stone<sup>®</sup> Base\* Slurry Properties

**These rheological properties enable lower equivalent circulating densities (ECDs) at normal displacement rates. This can enable faster displacement, thereby increasing mud removal efficiency.**

\*Class H base cement

## Major Benefits

- Delivery of precise slurries - mixing problems eliminated on location
- Slurries pumped using conventional pumps on location
- Eliminates dry blending and other uniformity issues
- Contamination resistance to chlorides and mud
- Flexibility – slurries easily modified for a specific application
- Safety benefits – less exposure to cement and additive dust

## Additional Benefits

- Compatibility – works with most cement additives
- Reduces mud removal problems
- Normal levels of compressive strength
- Environmentally friendly – dust-free product with minimal cleanup
- Operating savings – reduced equipment and labor costs
- Product savings – reduces losses during bulk cement transfer and loading
- Reduces or eliminates squeeze cementing costs

# Liquid Stone® Cement Technology


Product Sales Bulletin

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