

B350 Cement Retarder

B350 Cement Retarder is an upper mid-range to high temperature liquid retarder that is typically added to the mixing water prior to preparation of the cement slurry. B350 Cement Retarder extends the thickening time of the cement slurry for the purpose of providing sufficient time for placement. B350 Cement Retarder has a mild dispersing effect on the cement slurry that reduces the concentration of the dispersant required and inhibits premature slurry gelation with most cement slurries. B350 Cement Retarder improves the performance of most fluid loss agents and is particularly beneficial when used with synthetic polymer additives.

Typical Range of Use

- Temperature: 150°F - 375°F (65°C-177°C) BHCT
- Concentration 0.01-0.8 US Gallon/94 lb. sack
- Density: 10 to 11 lbs. / US gallon (1.20-1.22 g/cm³)

Physical Properties

- 50 WT. % Active solution of B350 Cement Retarder
- 0.01 US gallons B350 Cement Retarder / 94 lb. sack = 0.1% B350 Cement Retarder BWOC
- Clear to yellow Aqueous Liquid
- Specific Gravity = 1.2 – 1.22 g/cm³

Application Areas

- All API classes of cement
- Fresh water, Salt Water, or Sea Water Slurries

Slurry Design

The following slurry design and lab weights were calculated.

16.40 ppg Class H Blend System 6

Material	Concentration	Lab Test Amount/600 mL
Lehigh Class H	100% BWOC	849.33 g
(Field) Fresh Water	4.320 gal/sack	324.54 g
B-350	0.400% BWOC	3.397 g
C-37	0.200% BWOC	1.699 g

Packaging

B350 packaged in 55 gallon drums, 275 and 33 gal IBCs.

Availability

Global from Houston, TX-USA, Midland, TX-USA and Bombay, India.

THICKENING TIME RESULTS

(Indicated Thickening Times do not include batch mix time)

#	Test Temp (°F)	Batch Mix (min)*	Initial Bc	30 Bc at hh:mm	50 Bc at hh:mm	70 Bc at hh:mm	100 Bc at hh:mm
3A	250	N/A	41	00:00	05:24	05:25	05:56
4A	300	N/A	26	00:19	02:14	02:20	02:25
5A	250	N/A	27	07:44	07:59	08:06	08:08
6A	300	N/A	16	00:04	03:32	03:37	NA

Figure 1
 Class H with 0.8% BWOC

