



P-G350

CEMENTING SERVICE BULLETIN

09/29/21

P-G350 (ANTI-GAS MIGRATION ADDITIVE POWDER)

TECHNICAL DATA

- P-G350 significantly improves the set cement's compaction & compressive strength while reducing permeability.
- Use in freshwater or salt water, salt-tolerant up to saturation.
- Applicable Temperature: 0-176°C (32-350°F)
- Use with a salt-resistant fluid loss additive.
- Dry mixed/blended with cement & additives with no water quality required.

CEMENT SLURRY DESIGN 1 (58% FRESH WATER)			
Cement	API Class G Cement	600g	100%
Water	Fresh Water	348g	58% (BWOC)
Silica Flour	130 Mesh Silica Sand	210g	35% (BWOC)
Anti-Gas Migration Additive	P-G350 Latex Powder	24g	4% (BWOC)
Fluid Loss Additive	P-F400 Powder	9g	1.5% (BWOC)
Defoamer	Defoamer Liquid	1.2g	0.2% (BWOC)
CEMENT SLURRY PROPERTIES			
ITEM	TEST CONDITION		TEST RESULT
Density of slurry, lbs./gal	Room temperature		15.69
Thickening Properties	Initial Consistency, Bc	194°F / 49 min 7730.51 psi	15
	Thickening Time, min		188
	40-100 Bc		8
	Thickening Time, min		Normal
Shape Of Thickening Curve			
Fluid Loss Content, ml/30 min	176°F, 1000.76 psi		33
Rheology results	176°F, Atmospheric Pressure (100, 200, 300, 600 rpm)		63.6, 112.3, 156.6, 265.4
Free water (%Fluid)	176°F, Atmospheric Pressure		0
24h Compressive Strength, psi	194°F, Atmospheric Pressure		3234.34

CEMENT SLURRY DESIGN 2 (44% FRESH WATER)			
Cement	API Class G Cement	700g	100%
Water	Fresh Water	308g	44% (BWOC)
Anti-Gas Migration Additive	P-G350 Latex Powder	12.6g	1.8% (BWOC)
Fluid Loss Additive	P-F400 Powder	6.3g	0.9% (BWOC)
Defoamer	Defoamer Liquid	1.4g	0.2% (BWOC)
CEMENT SLURRY PROPERTIES			
ITEM	TEST CONDITION		TEST RESULT
Density of slurry, lbs./gal	Room temperature		15.86
Thickening Properties	Initial Consistency, Bc	194°F / 49 min 7730.51 psi	24
	Thickening Time, min		105
	40-100, Bc		9
	Thickening Time, min		Normal
Shape Of Thickening Curve			
Fluid Loss Content, ml/30 min	176°F, 1000.76 psi		42
Rheology results	176°F, Atmospheric Pressure (100, 200, 300, 600 rpm)		105.9, 170.1, 222.1, 341.2
Free water (%Fluid)	176°F, Atmospheric Pressure		0
24h Compressive Strength, psi	194°F, Atmospheric Pressure		2915.26



PROPERTIES

Appearance	Bulk Density, lbs./ft ³	Specific Gravity, g/cm ³	Water-Solubility	0.315mm Sieve (45 mesh) Residues, %
Gray powder	37.46 ± 1.25	1.48	Insoluble	<12

SAFETY:

Please read the P-G350 SDS before use.

STORAGE:

Normally used within 18 months after production. If expired, test should be done to confirm the quality. Store in ventilated, cool & dry area, avoid exposing to sun and rain.