

2-Batch NeoSuperSlurry Dump Bailer Cement Kits



Organization and formulation of “2-Batch” Kits is the same as our single batch kits that have been successfully run hundreds of thousands of times over 30 years. Our kits are Global Benchmarks.

“2-Batch” NeoSuperSlurry® Dump Bailer Cement Kits

2-Batch Kits yield two 3-gallon batches of 17 ppg high shear bond expanding cmt slurry

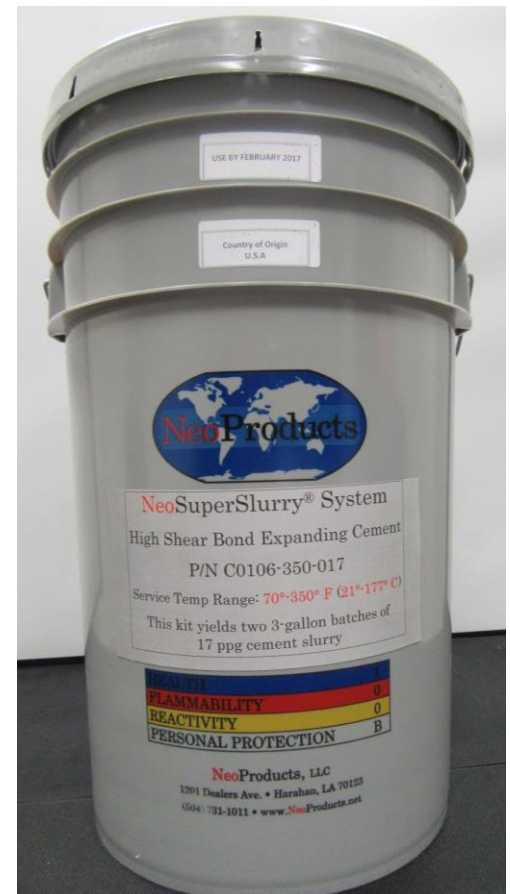
Service Temperature Range: 70° - 350° F (21° - 177° C)

P/N E0106-350-017

Description

2-Batch NeoSuperSlurry Kits are delivered in a single pail that contains a dry powder blend of High Sulfate Resistant (HSR) API Cement and multiple proprietary admixes that impart cement plug performance unsurpassed by any other dump bailed cement plugs.

- 2-Batch NeoSuperSlurry Kits (P/N E0106-350-017) are off-the-shelf ready-to-go dump bailer cement kits that contain all the components needed to build a high-tech high-ΔP cement plug placed via dump bailing operations.
- Easy to follow mixing instructions are contained in each kit. Operators can choose to mix a 3-gallon batch or a 6-gallon batch of NeoSuperSlurry.
- Kits contain two plastic bags, each containing a dry powder blend.
- Admixes in the dry powder blend assure; repeatable thixotropic dumping performance, minimal dilution/contamination of the slurry by wellbore fluids, rapid strength development, exceptionally high shear bond with casing, and repeatable/reliable gel, tag and set times at temperatures between 70° - 350° F.
- Kits also contain a pail that allows easy precise measurement of the water needed to mix 3-gallon and 6-gallon 17 ppg slurry batches.
- 2-Batch Accelerator - Modifier Packs (P/N E0101-225-017) are available to assist quick strength development at service temperatures between 70° - 225° F. These stand-alone modifier packs shorten gel, tag and set times and increase the shear bond strength between the cement plug and casing between 70°-225° F. Use one modifier pack per cement kit.
- 2-Batch Extended Run-time – Modifier Packs (P/N E0103-350-017) extend WL toolstring run-in times and/or dwell time at bottom by 90 – 120 minutes. Use one modifier pack per cement kit.
- “G3 Modifier Packs” reduce wait-on-cement times to 12 hrs and less. Contact NeoProducts for more details on G3 Modifier Packs. Use one modifier pack per cement kit.
- 2-Batch Kits contains a QC/QA report listing; cmt grind number, production date, the API neat cmt compressive strengths, 24 hr cmt slurry compressive strengths and the shear bond strength for the NeoSuperSlurry blend in the kit.



NeoSuperSlurries yield plugs that anchor and seal for the lifetime of the well.

Refer to the next page for NeoSuperSlurry plug length and shear bond strengths.

2-Batch NeoSuperSlurry Dump Bailer Cement Kits



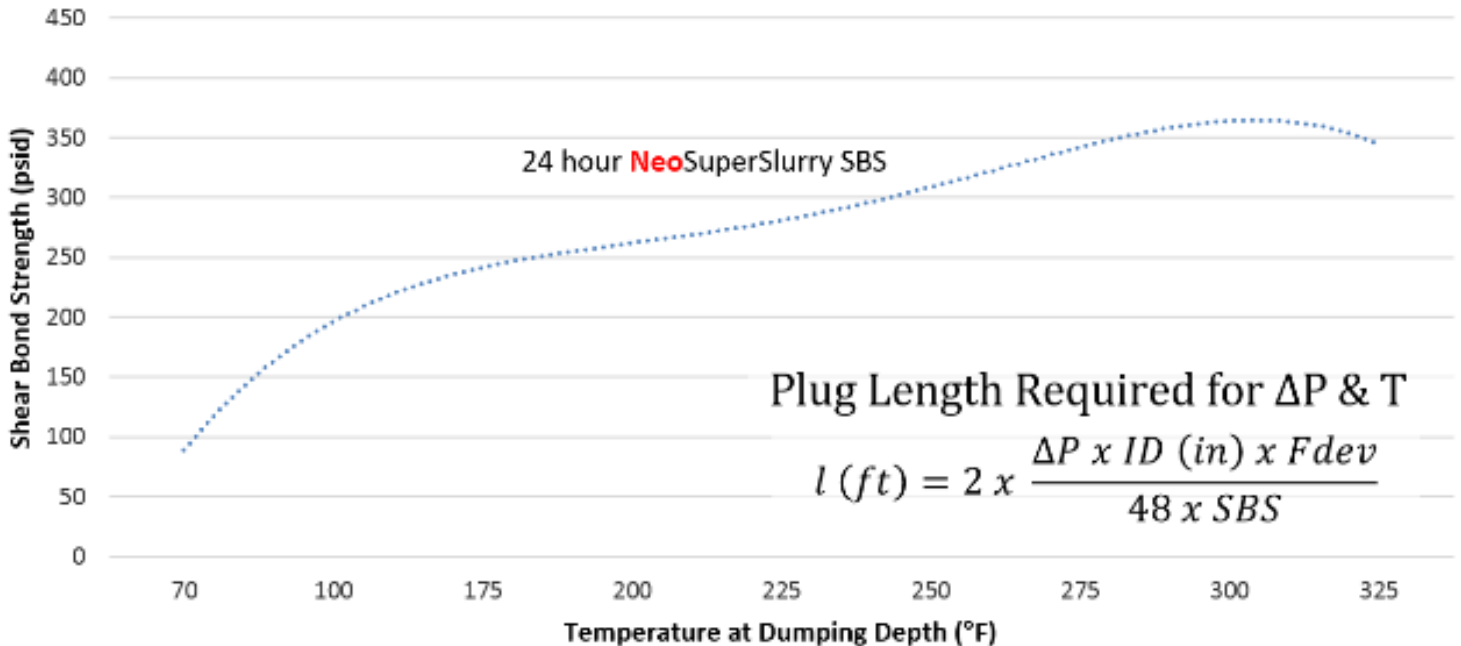
Always locate the bottom of the bailer system 1-2 ft above the bridge plug or 1-2 ft above the top of previously dumped cement.

A minimum plug length of 10 ft is ALWAYS recommended for all plug-back operations.

A 24-hr Wait on Cement Time after the last bailer run is ALWAYS recommended before pressure testing.

Recommended plug lengths based on ΔP, csg ID and Shear Bond Strength can be determined from the information below.

24 Hour Shear Bond Strength at Dumping Depth vs Temperature



Plug Length Required for ΔP & T

$$l (ft) = 2 \times \frac{\Delta P \times ID (in) \times Fdev}{48 \times SBS}$$

| | | | |
|-----------------------------------|-----------------------|--------------------------------------|-----------------------|
| l = minimum plug length (ft) | | SBS = plug-to-csg shear bond @ 24 hr | |
| ΔP = differential pressure (psid) | | Fdev = deviation factor | |
| ID = casing ID (inches) | | | |
| @ 0° DEV, Fdev = 1 | @ 30° DEV, Fdev = 1.2 | @ 60° DEV, Fdev = 1.6 | @ 70° DEV, Fdev = 2.0 |

A minimum plug length of 10 ft is ALWAYS recommended for all plug-back operations.

A 24-hr Wait on Cement Time after the last bailer run is ALWAYS recommended before pressure testing.