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**CEMENT  
MILL  
TEST**

**Cement Identified as:** Mortar Cement, Type N **Date:** 04/30/21  
**Production Dates:** March, 2021

| PHYSICAL REQUIREMENTS                        | ASTM C 1329 SPECIFICATIONS |             |  | RESULTS       |
|--|----------------------------|-------------|--|---------------|
|  |                            | Type N      |  |               |
| (ASTM C 430) 45-um sieve, % retained         | Maximum                    | 24          |  | 8             |
| (ASTM C 151) Autoclave Expansion, %          | Maximum                    | 1.0         |  | 0.10          |
| (ASTM C 266) Time of Setting (Gillmore)      |                            |             |  |               |
| Initial Set, minutes                         | Minimum                    | 120         |  | 170           |
| Final Set, minutes                           | Maximum                    | 1000        |  | 250           |
| (ASTM C 185) Air Content, %                  | Range                      | 8-21        |  | 14            |
| (ASTM C 1506) Water Retention                | Minimum                    | 70          |  | 75            |
| (ASTM C1072) Flexural Bond Strength (psi)    | Minimum                    | 70          |  | 85            |
| (ASTM C 109) Compressive Strength, psi (Mpa) |                            |             |  |               |
| 7 Day  | Minimum                    | 500 ( 3.5 ) |  | 2570 ( 17.7 ) |
| 28 Day                                       | Minimum                    | 900 ( 6.2 ) |  | 2980 ( 20.5 ) |

We hereby certify that this cement conforms to all of the standard requirements for mortar cement in the above specification for the type specified. ASTM C1072 testing is performed by an independent testing firm and results are available upon request.

By: *Rusty Strader*

Physical Testing completed by: DG, MS  
 Chemical Testing completed by: TA, NC, KL, NM

Rusty Strader  
 Quality Control Manager  
 Fairborn Cement Company