



B20250322

CERTIFICATE NUMBER

March 22, 2025

DATE

# Laboratory Test Certificate

UTRAMORTAR-MASONRY CEMENT/PLASTIC CEMENT/MORTAR CEMENT

|  | Value                  | Type S<br>Limit        | Type M<br>Limit        |
|--|------------------------|------------------------|------------------------|
| <b>Compressive Strength</b>                  |                        |                        |                        |
| 7 Days                                       | 4120 psi<br>(28.4 MPa) | 1300 psi<br>(9.0 MPa)  | 1800 psi<br>(12.4 MPa) |
| 28 Days                                      | 5030 psi<br>(34.7 MPa) | 2100 psi<br>(14.5 MPa) | 2900 psi<br>(20.0 MPa) |
| <b>Fineness - Retained on No. 325, %</b>     | 2.2 %                  | 24% Max                | 24% Max                |
| <b>Air Content of mortar, %</b>              | 13.5 %                 | 8.0 Min                | 8.0 Min                |
| Masonry, C91                                 |                        | 19.0 Max               | 19.0 Max               |
| Plastic, C1328                               |                        | 20.0 Max               | 20.0 Max               |
| Mortar, C1329                                |                        | 19.0 Max               | 19.0 Max               |
| <b>Water Retentivity Test %</b>              | 70                     | 70.0 Min.              | 70.0 Min.              |
| <b>Flexural Bond Strength Test 28d (PSI)</b> | 226                    | 100.0 Min.             | 110.0 min.             |
| <b>Time of Set, Gilmore Method</b>           |                        |                        |                        |
| Initial Set, minutes                         | 205 min.               | 90 Min                 | 90 Min                 |
| Final Set, minutes                           | 295 min.               | 1000 Max               | 1000 Max               |
| <b>Autoclave Expansion, %</b>                | -0.02 %                | 1.0 Max                | 1.0 Max                |

We certify that the above described cement, at the time of shipment, meets the requirements of ASTM C91-18 Type "M" Masonry Cement, C1328-19 Type "M" Plastic Cement and C1329-16a Type "S" Mortar Cement.

## Cement Division

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