

Technical Bulletin - Lehigh Northwest Type N Masonry Cement

1. Availability

Lehigh Type N Masonry cement is no longer available as a stand alone product. Lehigh Specialty Cement, which meets the requirements for Type S Masonry cement is readily available. Lehigh Specialty Cement exceeds the maximum strength requirement of Type N Masonry cement in according to CAN/CSA A3002-03. Lehigh Specialty Cement supplemented with lime can produce a product meeting the requirements of Type N Masonry cement in accordance with CAN/CSA A3002-03.

2. Product Composition

Basic Use: Combine 4 parts of Specialty Cement with 1 part of hydrated lime by weight (**approx. 2 parts Specialty Cement to 1 part hydrated lime by volume**) to produce Masonry Type N cement for use in masonry Type N mortars.

Colour: The masonry Type N cement made with a combination of Lehigh Specialty Cement and hydrated lime has a normal colour of light gray.

Limitations: The Lehigh Specialty Cement and hydrated lime combination is designed to be mixed with water. It should not be used for making concrete.

3. Technical Data

Applicable Standards: The combination of 4 parts of Specialty Cement with 1 part of hydrated lime by weight has been tested and satisfies the requirements for Type N Masonry Cement as described in CAN/CSA A3002-03.

Physical Properties: The combination of 4 parts of Specialty Cement with 1 part of hydrated lime by weight will yield a fine powder grey in colour.

Properties: According to CAN/CSA-A3002-03, mortar tested with a combination of 4 parts Specialty Cement and 1 part hydrated lime by weight met the requirements of CAN/CSA-A3002-03 and the results are tabulated below:

Measure	A3002-03 Type N Masonry Cement	4-Specialty & 1-Lime by weight, (as Type N)	Specialty Cement (Type S)
Initial set (minutes)	120 minimum	145	183
7 day Strength (MPa)	3.5 minimum	8.9	15.8
28 day strength (MPa)	6.2 minimum	9.9	17.6
28 day strength (MPa)	14.5 maximum		
Air content (%)	22 maximum	14.2	18.1

4. Safety and Handling

Cement and wet cement mixtures can dry the skin, cause alkali burns and irritate the eyes and upper respiratory tract. Ingestion can cause irritation of the throat. When working with cement and cement mixtures, workers should wear gloves and clothing impervious to moisture. Further safety measures should include; dust masks, safety goggles and barrier cream for exposed skin.

5. Warranty

Lehigh Northwest Cement Limited warrants that Lehigh Specialty Cement meets the requirements of CAN/CSA-A3000-03 "Cementitious Materials Compendium" A3002-03.

6. Product Storage

All cement must be stored in a dry weather tight enclosure. Bagged material must be stored on pallets which allow air circulation around them.

7. Technical Services

Technical information and services are available from Lehigh Northwest Cement Limited or on our web site at www.lehighnw.com.