

Type HS: High Sulphate Resistant Cement

1. Product Description

Basic Use: Lehigh Type HS cement is a special purpose hydraulic cement that can be used in cement mixtures that may be exposed to sulphate conditions. It is formulated to be used in concrete, grouts and mortars.

Colour: Lehigh Type HS cement has a normal colour of light grey.

Limitations: Lehigh Type HS cement is designed to be mixed with water to harden. It should be used in an environment that is free of acids.

2. Technical Data

Applicable Standards: Lehigh Type HS cement is manufactured to conform to CSA Standard A3001-08: "Cementitious materials for use in concrete" which is part of CSA A3000-08 "Cementitious materials compendium".

Physical Properties: Lehigh Type HS cement is a fine grey powder. CSA A3001-08 requires that Type HS cement have a minimum of 72% passing a 45 µm sieve.

Strength: According CSA A3001-08, mortar cubes made with Type HS cement will obtain minimum strengths as listed below:

3 days	-	14.5 MPa
7 days	-	20.0 MPa
28 days	-	26.5 MPa

Set Time: According to CSA A3001-08, a paste made with Type HS cement will attain an initial set in a minimum of 45 minutes and a final set in a maximum of 375 minutes, when tested by the Vicat method.

Specific Gravity: Lehigh Type HS cement typically has a specific gravity of 3.15.

3. 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.

4. Availability

Lehigh Type HS cement is available in 40 kg paper sacks or in bulk. Custom packaging may be available for selected large quantities.

5. Warranty

Lehigh Northwest Cement Limited warrants that Lehigh Type HS cement meets the requirements of the applicable standards noted.

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.

Lehigh Northwest Cement Limited

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