

Type HS, High Sulphate Resistant Hydraulic Cement

(formerly named Type 50 Sulphate Resistant Portland Cement)

1. Product Description

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

Colour: Lehigh Type HS cement has no artificial colours added and has a normal colour of light gray.

Limitations: Lehigh Type HS cement is hydraulic cement requiring 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 **CAN/CSA-A3000 "Cementitious Materials Compendium" A3001**, Canadian Specification for hydraulic cement.

Physical Properties: Type HS Normal Portland Cement is a fine grey powder.

Strength: According to CAN/CSA-A3001, 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

Setting Time: According to CAN/CSA-A3001, a paste made with Type HS cement will attain an initial set in a minimum of 60 minutes, and a final set in a maximum of 360 minutes, when tested by the Vicat method.

Specific Gravity: 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 either 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 CAN/CSA-A3000 "Cementitious Materials Compendium" A3001.

6. Product Storage

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

7. Technical Services

Technical information and services are available from Lehigh Northwest Cement Limited.