

# Type GU, General Use Hydraulic Cement

(formerly named Type 10 Normal Portland Cement)

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## 1. Product Description

**Basic Use:** Lehigh Type GU cement is a general use hydraulic cement that can be used for most construction projects. It has been formulated for use in concrete, grouts, and mortars.

**Color:** Lehigh Type GU cement has no artificial colors added and has a normal color of light gray.

**Limitations:** Lehigh Type GU cement is hydraulic cement requiring water to harden. It should be used in an environment that is free of acid and sulphate.

## 2. Technical Data

**Applicable Standards:** Lehigh Type GU cement is manufactured to conform to **CAN/CSA-A3000-03 "Cementitious Materials Compendium", A3001-03, Cementitious Materials for Use in Concrete.**

**Physical Properties:** Type GU cement is a fine gray powder. CAN/CSA-A3001 requires that Type GU cement have a minimum of 72% passing a 45µm sieve.

**Strength:** According to CAN/CSA-A3001, mortar cubes made with Type GU 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 CAN/CSA-A3001, a paste made with Type GU cement will attain an initial set in a minimum of 45 minutes, and a final set in a maximum of 360 minutes, when tested by the Vicat method.

**Specific Gravity:** Type GU 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 GU 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 GU cement meets the requirements of CAN/CSA-A3000-03 "Cementitious Materials Compendium" A3001-03.

## 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.