

# *OneCem<sup>®</sup> Portland Limestone Cement* **The One Cement You Need for a Successful Project.**

**Introducing OneCem portland limestone cement.** OneCem is a blended cement in which finely ground limestone (5 to 15%) is an integral component within the cement. OneCem has been designed to perform similarly to existing cements and is rigorously tested to verify its performance. OneCem is currently manufactured according to CSA A3001-18 Cementitious materials for use in concrete.

## **Sustainability**

Growing concerns about climate change and the environmental impact of building materials have been driving forces for the development of sustainable solutions for concrete. GUL cement offers the same level of performance and workability as GU cement. Manufactured with quality limestone, GUL cement uses the same materials as GU cement with less clinker reducing CO<sub>2</sub> emissions by 5 to 10 percent.

## **Technical Information**

OneCem portland limestone cement meets CSA A3000 standard specifications for hydraulic cements Type GUL cement. Type MSL or HSL requirements may also be met. Ask your local sales representative for more information.

## **Applications**

GUL cement is suitable for use in almost all cement and concrete application with minimal or no changes needed when switching from GU to GUL cement for normally proportioned concrete mix designs. It is used in all ready-mixed concrete, architectural and structural precast, concrete blocks and paving, and geotechnical applications. GUL cement does not increase the likelihood of efflorescence in masonry applications.



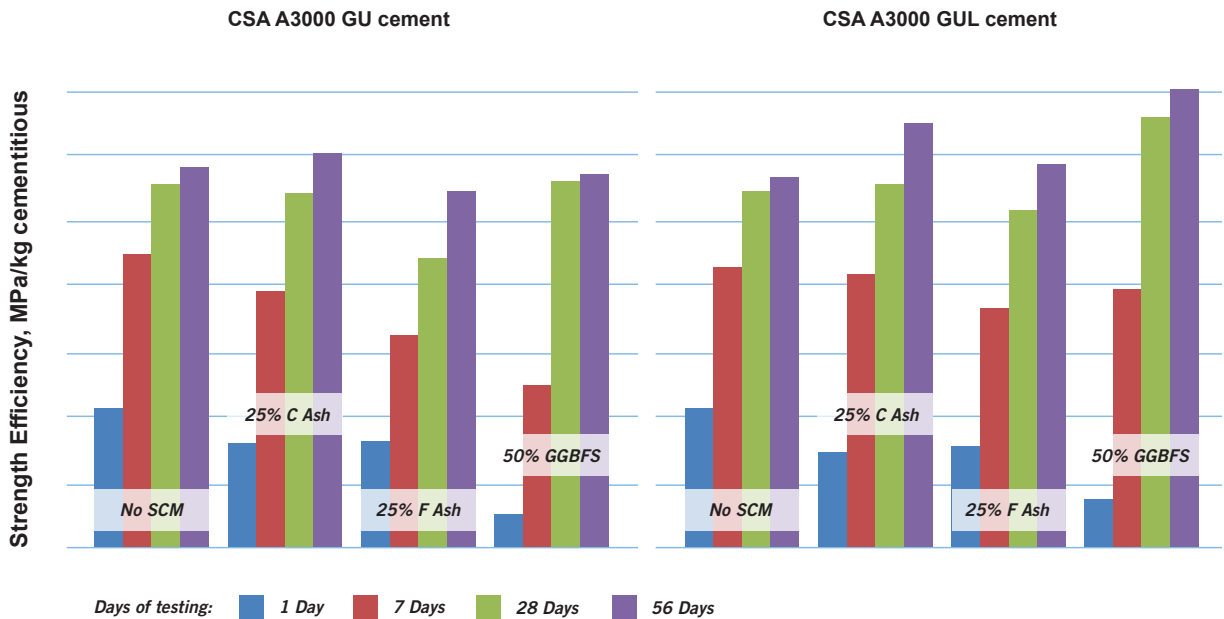


## Performance

Our plants have targeted the performance of OneCem to perform similar to the GU cement produced at the same facility, based on extensive testing and evaluation. The performance targets encompass both fresh and hardened concrete properties. These properties include durability evaluations in addition to the usual strength requirements. It has been found in many studies by Lafarge Canada, third parties and academia that a positive interaction exists between portland limestone cement and supplementary cementitious materials (SCM) such as fly ash and slag cement (ground granulated blast-furnace slag, GGBFS).

## Experience

Lafarge has produced over 6 million metric tonnes of GUL cement since 2011, and users can be confident in its performance whilst reducing the carbon footprint in the built environment and community. Lafarge uses GUL cement in ready-mixed concrete applications, without adjustment or impact to admixtures type or dosage. Whether there is a need for sustainable products or a demand for a consistent product, GUL cement meets your needs. With minimal changes, GUL cement is the easiest material switch to reduce impacts whilst driving for consistency and overall performance.



Data from "Shrinkage and Durability Study of Bridge Deck Concrete," MS DOT State Study 216, Burns Cooley Dennis, Inc.; Dec. 2010; concrete strength comparison of RS mixes, agg source #1. The performance of individual material combinations may vary. Testing is recommended to determine their performance characteristics.

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