

PRODUCT NAME

St Marys EnviroCem™ Portland-Limestone cement

MANUFACTURER

St Marys Cement
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PRODUCT DESCRIPTION

St Marys Type IL Cement is a greener, more sustainable cement which contributes up to a 10% reduction in CO₂ emissions compared to Type I Cement while maintaining equivalent performance.

BASIC USE

Portland-limestone cement is the binding ingredient used in concrete mixes with or without supplementary cementitious materials. It is a general-use cement suitable for all uses where the special properties of other types are not required.

It is used and proportioned similarly to normal Portland cement in concrete mix designs.



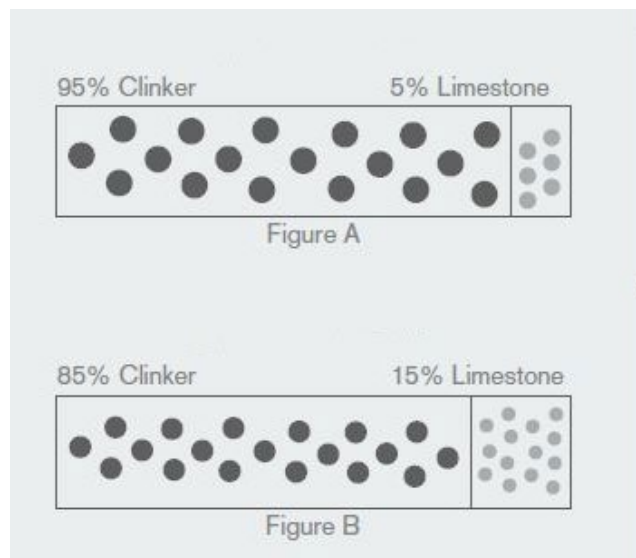
Photo: Mattamy National Cycling Centre: Toronto

LESS GHGs- COMPARABLE PERFORMANCE

The cement industry has invested considerable resources to optimize the properties of Portland-limestone cement to be comparable to regular Portland cement. On average, the Portland-limestone clinker and limestone particles are smaller in size, producing a “particle packing effect” that increases the resulting strength of the concrete.

Additionally, the smaller limestone particles tend to provide nucleation sites for enhanced clinker reactivity.

The result of this optimization process is shown in Figures A and B below:



The limestone is subjected to quality assurance tests prior to manufacturing to ensure that Portland-limestone cement will provide good performance. Since Portland-limestone cement is optimized to provide performance comparable to regular Portland cement manufactured in the US, no significant changes are required to concrete mix designs when using Portland-limestone cement.

INNOVATIVE YET PROVEN

While still relatively new to the US market, Portland-limestone cement has an extensive proven track record in Europe and Canada in a variety of commercial and residential applications for over 35 years and 10 years, respectively.

The most popular cement sold in Europe today is Portland-limestone cement with a limestone content of up to 20%. The 15% limestone limit applied to Portland-limestone cement in the US is well within the maximum limit of 35% permitted in European cement standards.

TECHNICAL DATA

APPLICABLE STANDARDS

- ASTM C595 – Standard Specification for Blended Hydraulic Cements

PRECAUTIONS

Avoid contact with eyes. Contains Portland cement, which when mixed with water creates a calcium hydroxide solution. If splashed in eyes or skin, flush thoroughly with water. Avoid contact with skin, including contact with saturated clothing. Persistent discomfort requires prompt medical attention. For more information, reference the applicable Safety Data Sheet (SDS). The SDS should be consulted prior to use of this product and is available upon request or online at www.stmaryscement.com

AVAILABILITY

St Marys Type II Cement is available in bulk or packaged form. Contact manufacturer for information on distribution and availability.

WARRANTY

Manufacturer will provide mill test certification that product meets and exceeds applicable ASTM and AASHTO specifications.

St Marys Cement will not guarantee finish work, having no control over the use of this product.

TECHNICAL SERVICES

For technical assistance contact the local St Marys Cement office.