

Environmentally responsible  
cement with excellent  
performance





EcoCemPLC™ provides a 10% smaller carbon footprint than conventional portland cements

### What is portland limestone cement?

Portland limestone cement (PLC) is manufactured using clinker (the main ingredient in cement) with up to 15% micro-sized limestone.

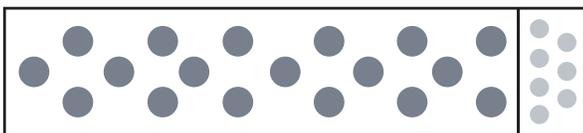
Production of this earth-friendly cement generates about 10% less CO<sub>2</sub> than other portland cements, while still delivering the consistency, versatility and performance Lehigh customers expect.

Additionally, the higher surface area of fine limestone provides surfaces for silicates to form and grow through a process called “nucleation.” Calcium-Silicate-Hydrate (C-S-H) is the main binding phase in concrete and forms around cement grains. Manufacturing with limestone particles gives the C-S-H more places to grow, allowing more complete reactions.

Earth-friendly without sacrificing the versatility and performance you expect

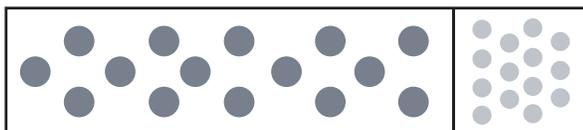
### Traditional portland cement

95% Ground Clinker      Less than 5% Limestone

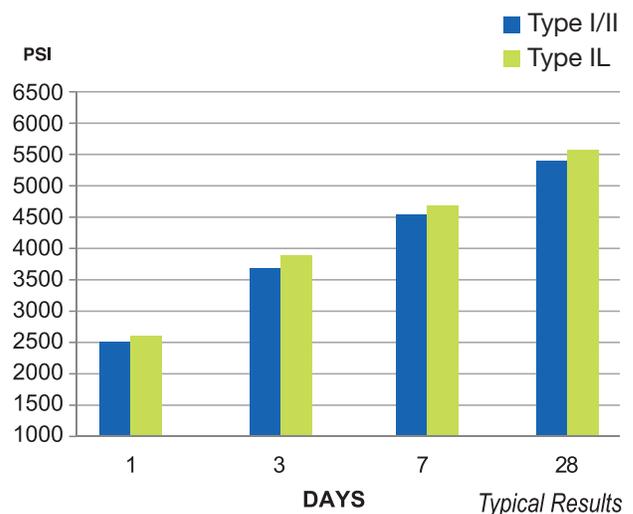


### Portland limestone cement

85% Ground Clinker      Up to 15% Limestone



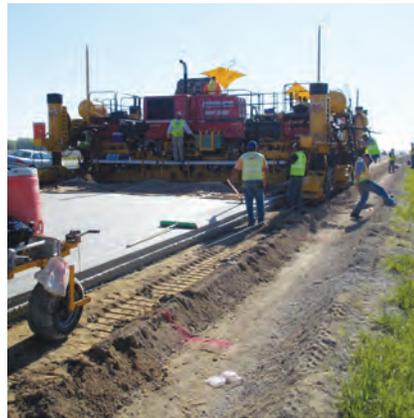
### Type IL compared to Type I/II cement



# EcoCemPLC™ APPLICATIONS

## Designed for use in the production of concrete block and pavers.

The use of EcoCemPLC™ decreases CO<sub>2</sub> emissions nearly 10% while still producing products with the same level of strength and durability as those manufactured with ordinary portland cement. It also reduces the appearance of efflorescence in concrete block and pavers and helps with mixture compaction due to the optimized particle size distribution.



## Can be used for concrete pavement and soil stabilization.

EcoCemPLC™ can be used on highways, streets and roadways, parking areas, site development projects, airports and in many other construction applications. This product can help where sub-soils are not suitable for construction and can also be utilized in Full-Depth Reclamation (FDR) applications by recycling the existing asphalt pavements.

## Advantageous for ready mixed applications.

The use of EcoCemPLC™ has a measurable effect on the environmental impact of the concrete utilized in structures. It provides a way for producers to differentiate their concrete as a “green” product without affecting the strength, durability or cost of the product. Many times there are enhanced synergies with supplemental cementitious materials like slag and fly ash when used in combination with EcoCemPLC™. It is why we can say **Your Concrete Just Got Greener®**.



trust earned daily



## trust earned daily

Lehigh Hanson, Inc. is a leading supplier of construction materials in North America. Our core activities include the production of cement and aggregates and we also produce ready mixed concrete, asphalt and other downstream products. With our innovative approach and extensive network of facilities, our customers trust us to provide the products, service and experience it takes to get the job done. At Lehigh Hanson, that's a trust we earn every day.

Lehigh Hanson, Inc. and our affiliated companies are part of the HeidelbergCement Group, one of the largest building materials manufacturers worldwide. For more information, visit us at [lehighhanson.com](http://lehighhanson.com).

EcoCem®PLC is a registered trademark in Canada.