

HE Cement

Where early strength gain is key



Background

Lafarge HE (High Early Strength) Portland Cement is a high quality, cost-effective basic building material used when high early strength is required, generally for precast, prestressed, block, paving and urgent repair. Lafarge HE Portland Cement meets or exceeds all applicable chemical and physical requirements of CSA A3000.

Sustainability

Lafarge contributes significantly to sustainability in the field of construction. Lafarge has been involved in the development of industry average EPDs for the majority of its plants and products, which can be used to help acquire Leadership in Energy and Environmental Design (LEED) points as part of the USGBC's (U.S. Green Building Council) and CaGBC's (Canada Green Building Council) programs. Regional plant and product specific EPDs may also be available. For additional carbon emission reductions, Portland Limestone Cements (GUL...) and supplementary cementitious materials can be used as Portland Cement replacements for most applications. Contact your local Lafarge Technical Services Representative for more information.

Manufacturing

Lafarge manufactures all products in accordance with strict QA/QC (quality assurance and quality control) procedures to ensure optimum product performance and uniformity. Lafarge HE is produced at our cement plants across the country. While these cements may vary due to differences in regional raw materials, high levels of consistency from any one source are maintained. Contact your local Lafarge Technical Services Representative for more information.

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Applications

Lafarge HE high early Portland Cement is specially designed for applications which require high early strengths, such as the precast, prestressed, block, paving and urgent repair industries. HE is also used where specifications or schedules require that concrete be put in service at an early age, for urgent repairs to roads, floors, mine shafts, tunnels, dams, and in winter work in order to reduce the usual protection period. Lafarge HE can be available in bulk or in bags.

Performance

Lafarge HE is used to obtain a more rapid concrete strength development than can be used with standard Portland Cements. This feature is due to its chemistry and the fact that HE is ground finer than other Portland Cements. Lafarge Portland Cements can be used to achieve quality concrete meeting design requirements for strength and durability. In most applications, quality aggregates, admixtures and additives should be utilized in conjunction with the appropriate Portland Cement type. Skilled persons should use these products with special attention given to formwork, batching, mixing, placing, finishing and curing. For detailed information, contact your Lafarge sales office.

Experience

Lafarge Canada Inc. is the largest provider of solutions to the construction and development industry. With more than 6,000 employees and over 60 years of experience in Canada, our mission is to provide construction solutions that build better cities and communities. The cities where Canadians live, work, and raise their families along with the infrastructure that supports these communities such as roads, bridges, tunnels, and water and waste management systems benefit from Lafarge materials and solutions.

Technical Information

Lafarge HE Cements meet or exceed all applicable chemical and physical requirements of CSA A3000-18 for High Early cements. For more information, contact your Lafarge Technical Representative.

Precautions

Avoid any direct contact with cement. If contact occurs, the skin should be washed with water as soon as possible. Exposure can cause serious, potentially irreversible tissue destruction in the form of chemical (caustic) burns. Exposure may be hazardous even if there is no pain or discomfort. If exposed or concerned, get medical advice. For more information, reference the applicable Lafarge Safety Data Sheets (SDS) available upon request and online at www.lafarge.ca under the Health & Safety tab. Do not handle cement until all safety precautions have been read and understood.

Limited Warranty

Lafarge Canada Inc. makes no warranty, whether of merchantability or fitness for a particular purpose, with respect to Lafarge HE. Having no control over its use, Lafarge will not guarantee finished work in which Lafarge Portland Cements are used.

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