



**Barry Thornbury**Manager, Promotion/Training/E-Business



Phone 734 529 4167 Fax 734 529 4110 barry.thornbury@holcim.com www.holcim.us

November 7, 2006

Dear Media Representative,

We are pleased to announce that Holcim (US) Inc. will host a significant press conference at the U.S. Green Building Council's GreenBuild Expo, Colorado Convention Center, Room 610-612, Denver, Colorado, on November 15, 2006 at 11:00 a.m. MST. The key message of the press conference is the official introduction and launch of Envirocore™, Holcim's family of environmentally-friendly cement; and an update on the Holcim Foundation Awards for Sustainable Construction.

#### Presenters include:

Janice Richards, Manager, Communications, Holcim (US) Inc. Barry Thornbury, Manager, Promotion/Training/E-Business, Holcim (US) Inc.

#### Panelist for Q&A includes:

Bill Townsend, Deputy CEO, Holcim (US) Inc.

Peter Bohme, Manager, Technical Service, Holcim (US) Inc.

JC Roumain, Manager, Product Management, Holcim (US) Inc.

Erika Guerra, Manager, Sustainability Program, Holcim (US) Inc.

Tareq Ali, Manager, Strategic Marketing and Business Planning, St. Lawrence Cement, Inc.

Joe Merlino, Manager, Marketing and Communications, Aggregate Industries Management Inc.

Miles Watkins, Director of Group Environmental and Corporate Social Responsibility, Aggregate Industries Ltd.

Please hold the information contained within this kit in embargo until the conclusion of the live event. The information is available for immediate release after that time.

I invite and enthusiastically encourage your participation by attending the press conference live at the event or live via webcast (instructions enclosed).

Best/egards,

Barry Thornbur

# Holcim (US) Inc. – Envirocore<sup>™</sup> and Holcim Awards Competition for Sustainable Construction Press Conference Information

# Live Attendance (on-site) at U.S. Green Building Council's GreenBuild Expo

Location: Colorado Convention Center, Denver, Colorado

Room: Meeting Room 610-612

Date: Wednesday, November 15, 2006

Time: 11:00 a.m. – Noon MST

# Live attendance (web cast) through WebEx

- 1. Visit <a href="holcim.webex.com">holcim.webex.com</a> (do not use www as part of the address)
- 2. Click on the "Today" tab
- 3. Click on the "Join Now' link located to the right of Holcim (US) Inc. Press Conference
- 4. Follow the on-screen instructions
- 5. The session password is "marketing"

A press kit will be distributed at the press conference. For those attending via Web cast, a press kit can be obtained by filling out the form below and mailing to:

Holcim (US) Inc. 6211 N. Ann Arbor Rd. Dundee, Michigan 48131 Attn: Barry Thornbury

Company			
Name		Title	
Address			
City	State		Zip Code
Telephone			



Phone: 734-529-4167 Fax: 734-529-4110 www.holcim.us

# Media release

Contact: Barry Thornbury For Immediate Release

Mobile: 734-646-4032

E-mail: barry.thornbury@holcim.com

Holcim (US) Announces Envirocore<sup>™</sup> Family of Products at Greenbuild 2006 in Denver, Colorado

Denver, CO – (Nov. 15) As a member of the global community, and a leader in the U.S. cement industry, Holcim (US) is committed to supporting sustainable development. In keeping with that commitment, today Holcim launched the Envirocore<sup>TM</sup> family of environmentally-friendly products.

"As an employer, supplier and neighbor we are committed to sustainable development that meets the needs of the present without compromising the ability of future generations to meet their own needs," states Patrick Dolberg, President and CEO for Holcim. "To keep this commitment requires a thoughtful balance of economic growth, environmental stewardship, and social responsibility."

Holcim Manager of Promotion/Training/E-Business, Barry Thornbury adds, "Holcim produces cement, the most important ingredient in concrete, a fundamental infrastructure component of modern society. As such, we recognize our responsibility to provide a sustainable future."

Holcim has committed to managing and reducing its environmental footprint. This is a key priority and will be implemented through programs designed to reduce clinker factor, create efficient thermal energy use, increase the use of alternative fuels and raw materials, and reduce or eliminate the need for cement kiln dust (CKD) disposal.

The Envirocore family of products is an integral part of this eco-efficiency program. The product line is manufactured to meet applicable quality requirements and may be used in many of the portland cement concrete applications currently in use.

During Greenbuild 2006, the U.S. Green Building Council's annual convention and trade show, Holcim introduced these products, as well as its website dedicated to supporting environmental responsibility.

Holcim (US) Inc., a subsidiary of Holcim Ltd of Switzerland, is one of the nation's leading manufacturers and suppliers of cement and mineral components. The company is a member of the PEW Center on Global Climate Change Business Environmental Leadership Council; a member of the U.S. Green Building Council; and an inaugural member of the U.S. Environmental Protection Agency's Climate Leaders Program.

Holcim Ltd of Switzerland is a co-founder of the World Building Council for Sustainable Development's Cement Sustainability Initiative; and was recently acknowledged as a "leader of the industry" in the Dow Jones Sustainability Index 2006, the DOW Sustainability Index, and is included in the FTSE4 Good and Ethibel Sustainability Index for Excellence.

Phone: 781 647 2501 Fax: 781 647 2516 www.holcim.com/us

# **FACTS**

- Holcim (US) Inc. is headquartered in Waltham, MA. Holcim is one of the largest manufacturers and suppliers of cement and mineral components in the United States. In addition to Portland cements, Holcim produces fly ash and slag cement products, such as GranCem<sup>®</sup>, to enhance concrete performance. Holcim also makes blended and masonry cements in a wide variety of colors.
- The company operates 14 manufacturing plants and 70 distribution terminals nationwide.
- Holcim is constructing a new 4-million-ton capacity plant in Ste. Genevieve County, Missouri.
- The company has approximately 2,400 employees and supplies over 14 million metric tons of cement and related materials annually.
- Revenues in 2005 were approximately \$1.4 billion.
- Holcim has provided cement for the construction of the nation's premier landmarks, including:
  - Denver International Airport
  - > Tampa International Airport
  - Mall of America
  - Cleveland Indians Baseball Stadium
  - Pueblo Dam
- Holcim (US) Inc. is a wholly-owned subsidiary of Holcim Ltd, one of the world's leading suppliers of cement and allied construction materials with facilities in more than 70 countries across all continents.
- The Website for Holcim (US) Inc. is www.holcim.com/us.

\* \* \* \*

For Immediate Release November 15, 2006



# Aggregate Industries' Sustainability Report 2005 Highlights Continuing Progress and Improvements

"Achieving a Balance" is once again our theme of Aggregate Industries' Sustainability Report for 2005. In order to show that a balance exists we must demonstrate that our performance is moving in the right direction in respect of the environment, people and the community. While we grow economically we must manage the impact of our operations, on people and on the natural environment. Although complex in practice to demonstrate, we now have the performance measures in place and the right culture to achieve our aims.

Among the many highlights contained in this most recent report, the company is pleased to emphasize the following:

- Ninth straight year of business growth
- Health and Safety hard target achieved
- ISO 14001 program completed in the US
- Community engagement program underway

Further details on these, and other areas of progress, can be found in our online version at <a href="https://www.aggregate.com/sustainability">www.aggregate.com/sustainability</a>.

"I am delighted with the way we have, over the past decade, consistently developed and promoted this business as one that sees sustainability as core to our business success. It remains a key focus for us, and I know that within the Holcim Group we will not only continue in our strategy but will also contribute, through our experiences, to the advancement of the Group's vision for sustainability across the world." stated Chief Executive Officer Bill Bolsover

---

Aggregate Industries, a wholly owned subsidiary of Holcim Ltd, is an environmentally responsible producer of high quality, aggregate-based construction materials in the US and the UK. The company produces aggregates, ready mixed concrete, concrete products and asphalt (and related contracting services) in seven regional businesses in the US.

Holcim is one of the world's leading suppliers of cement and aggregates (crushed stone, sand and gravel) in addition to other activities such as ready-mixed concrete and asphalt including services. The Group holds majority and minority interests in more than 70 countries across all continents.

## CONTACTS:

Dr Miles Watkins Director of Group Environmental and Corporate Social Responsibility Aggregate Industries Limited

Tel: +44 (0)1530 816667



# St. Lawrence Cement Sustainable Development Profile (November 2006)

St. Lawrence Cement is a leading producer and supplier of products and services for the construction industry, namely cement, concrete, aggregates and construction. St. Lawrence Cement has an annual cement production capacity of 3.7 million metric tonnes and 700,000 metric tonnes of GranCem<sup>®</sup>. The Company operates in Canada and on the eastern seaboard of the United States and employs a total of 3,200 people. St. Lawrence Cement is listed on the Toronto Stock Exchange (ST.A) and headquartered in Mount Royal, Quebec. In 2005, the Company reported sales of CAN 1.3 billion dollars. St. Lawrence Cement is a subsidiary of Holcim Ltd, one of the world's leading suppliers of cement, aggregates concrete and construction-related services with Group companies and affiliates in more than 70 countries.

## **Highlights of Our Sustainability Performance:**

At St. Lawrence Cement, sustainable development is integrated into our business strategy and planning process throughout the company. Our goal is to build a sustainable business and we recognize that the company's continued growth and ability to operate depend on how successfully we reconcile financial objectives with environmental protection and community well-being. We accept the fact that our performance will increasingly be evaluated on how we do in all three areas.

The priority issues for St. Lawrence Cement with respect to Sustainable Development are the following: Ongoing efforts to reduce carbon dioxide (CO<sub>2</sub>) emissions from our operations; increasing the use of alternative fuels and raw materials (AFR); improvements in our safety performance; community involvement.

# (CO<sub>2</sub>) emissions

- Cement manufacturing is an important source of global man-made emissions of CO<sub>2</sub>. While seeking to reduce the environmental footprint of its operations, St. Lawrence Cement is committed to significant decreases in its CO<sub>2</sub> intensity. In 2003, St. Lawrence Cement joined the US EPA Climate Leaders program. This voluntary industry-government partnership encourages companies to develop long-term comprehensive climate change strategies by setting an aggressive corporate-wide greenhouse gas emissions reduction. Under this program, St. Lawrence Cement committed to reduce its net carbon dioxide (CO<sub>2</sub>) emissions by 15% per tonne of cementitious product manufactured between 2000 and 2010. This goal followed a 9% reduction of CO<sub>2</sub> emissions achieved between 1990 and 2000. At the end of 2005, St. Lawrence Cement cumulative reduction in CO<sub>2</sub> emissions was 23.9% since 1990 and 15.8% since 2000; thus meeting its initial Climate Leaders target.
- Approximately 60% of St. Lawrence Cement CO<sub>2</sub> emissions result from the chemical process that
  converts the calcium carbonate in limestone to calcium oxide during the production of clinker. St.
  Lawrence Cement is achieving CO<sub>2</sub> reductions by improving energy efficiency and using mineral
  components such as GranCem®, fly ash, and silica fume as cement and clinker substitutes which
  reduce the amount of limestone to be heated and therefore reduce energy consumption and CO<sub>2</sub>
  emissions.

#### Alternative fuels and raw materials (AFR)

Further CO<sub>2</sub> emission reductions are also achieved through the increased use of alternative fuels such as used tires, municipal sewage sludge and treated wood to replace coal usage. About 40% of St. Lawrence Cement CO<sub>2</sub> emissions are generated from the burning of fossil fuel – mainly coal – in its kilns. The substitution of virgin fossil fuels with waste-derived fuels contributes to lower greenhouse gas emissions and is an important component of the Company CO<sub>2</sub> reduction strategy.

• The environmental management systems at all our cement operations and Quebec quarries and ready-mix plants are registered ISO 14001 while our quality management system is ISO 9002.

#### **Social Performance**

- Our business units engage in constructive dialogue and community relations through initiatives such as permanent citizen committees, meetings with ratepayer associations and Open Houses. They provide financial and other support to many worthy endeavours and several have received awards for their community outreach programs. In 2005, we contributed \$1.4 million to community causes while 218 community events were held at our different business units.
- St. Lawrence Cement is committed to providing healthy and safe workplaces. Significant improvements were recorded in our lost time injury frequency rate and we continue to outperform our industry in this important metric.

#### **Sustainable Construction**

- In 2003, Holcim established the *Holcim Foundation for Sustainable Construction*, an independent entity from the economic interests of the Holcim Group. Building and construction is not just about bricks and mortar, it's about creating the context in which people live, work, move and interact. The Holcim Foundation has organized five regional awards and one global award to support initiatives in sustainable construction that are outstanding in their response to technological, environmental, socio-economic and cultural requirements and constraints.
- Developed by the Montréal-based architecture firm L'OEUF, the "Green Energy Benny Farm" Project, was recognized by the Holcim Awards for Sustainable Construction through the Gold Award for North America in 2005 and the Global Bronze Award for the worldwide competition in 2006. Benny Farm is a model of urban architecture and landscaping. It comprises the sustainable construction and renovation of 187 housing units on four properties, each linked to a common green infrastructure. This project is concrete proof that it is possible to take into account environmental, socio-economic and cultural factors in the construction of sustainable buildings.
- St. Lawrence Cement demonstrates its commitment to sustainable construction by manufacturing
  and encouraging the use of sustainable construction materials such as concrete. Concrete is a
  competitive construction option, given its initial cost, long-term economic benefits, energy
  efficiency, lower maintenance and operational costs, as well as its numerous possibilities for
  recycling should the building's vocation change.

For more information on St. Lawrence Cement, go to www.stlawrencecement.com.

For more information on the Holcim Awards, go to www.holcimfoundation.org/awards.

For further details on the "Green Energy Benny Farm" project, go to www.loeuf.com.

St. Lawrence Cement Corporate Office 1945 Graham Boulevard Mount Royal, Quebec H3R 1H1 (514) 340-1881



#### Mission

It is the mission of the Holcim Foundation to select and support initiatives that combine sustainable construction solutions with architectural quality and enhanced quality of life beyond technical solutions. The Holcim Foundation intends to encourage sustainable responses to the technological, environmental, socio-economic and cultural issues affecting building and construction.

The objective of the Holcim Foundation is the non-commercial promotion and development of sustainable construction, regionally as well as globally.

The Holcim Foundation wants to make a difference. Utilizing the global reach of the Holcim Group, it is to accelerate progress toward sustainable construction, encouraging initiatives in support of sustainable approaches to the provision of housing and infrastructure in industrializing and industrialized nations alike.

It wants to unite the multiplicity of competencies globally available in the construction sector around a heightened awareness of their critical role in sustainability: diffusing best practice, pioneering fresh solutions, inspiring young architects and engineers, and tomorrow's developers and contractors, to adopt new, sustainable, parameters for all they build.

The Holcim Foundation's objectives will be implemented by:

- supporting sustainable construction in the scientific field, among experts in the construction sector, business and society;
- awarding innovative, future-oriented and tangible sustainable construction projects from around the globe;
- providing appropriate financial support to enable the realization of outstanding construction projects, particularly for the benefit of disadvantaged communities; and,
- organizing seminars or symposiums on the topic of sustainable construction at the professional/academic level



The objective of the Holcim Foundation in cooperation with its partner universities is to establish the Holcim Awards as an international platform for professionals and specialists of all generations to promote interdisciplinary dialog, bring forward new ideas and examine potential solutions. Lessons learned in one context have applicability elsewhere, but may require adaptation and certainly need explanation and illustration.

The Holcim Foundation intends therefore to act as an enabler so that, whatever their origin, exciting and important new ideas can be more widely discussed and assessed by a broader audience of specialists. Facilitating exchange of experience and knowledge of the determinants for sustainability in building and construction is an investment in education, in innovation and in learning by doing.

#### The Holcim Awards

The Holcim Awards is an initiative of the Holcim Foundation for Sustainable Construction based in Switzerland. The independent Foundation is supported by Holcim, one of the world's leading suppliers of cement, aggregates (crushed stone, sand and gravel), concrete and construction-related services. Holcim holds majority and minority interests in more than 70 countries on all continents. The Group employs some 61,000 people.

The Holcim Awards are conducted in partnership with the Swiss Federal Institute of Technology (ETH Zurich), Switzerland; the Massachusetts Institute of Technology (MIT), Boston, USA; Tongji University, Shanghai, China; the University of São Paulo, Brazil; and the University of the Witwatersrand, Johannesburg, South Africa. The universities define the evaluation criteria and lead the independent competition juries.

The Holcim Awards competition is comprised of five regional Holcim Awards (in 2004/5) and the global Holcim Award (in 2006). The regional Holcim Awards are based on five geographic regions:

- Europe
- North America
- Latin America
- Africa Middle East, and
- Asia Pacific

The award-winning first three regional entries (Holcim Awards Gold 2005, Holcim Awards Silver 2005 and Holcim Awards Bronze 2005) qualify for the global Holcim Award to be awarded in Bangkok in April 2006. In the case of site-independent projects, the affiliation is based on the origin of the author(s).



# **Jury and assessment**

The regional juries were led by the respective partner universities and consisted of independent, regionally-renowned representatives from science, business and society. The global jury will be led by the Technical Competence Center of the Holcim Foundation (ETH Zurich, MIT Boston, and Tongji University Shanghai) and consist of independent, renowned representatives from science, business and society. Members of each jury are nominated for one Holcim Awards cycle only.

#### Prizes

The total prize money for each cycle of the regional and global Holcim Awards is USD 2 million. The total prize amount for each of the five regional competitions is USD 220,000:

- Holcim Awards Gold 2005 USD 100,000
- Holcim Awards Silver 2005 USD 50,000
- Holcim Awards Bronze 2005 USD 25,000
- Holcim Awards Acknowledgement 2005 prizes from a pool of USD 30,000
- Holcim Awards Encouragement 2005 prizes from a pool of USD 15,000

The Awarded regional entries (15 projects) take part in the global Holcim Award competition in 2006. The total prize amount for the global competition is USD 900,000:

- Global Holcim Award Gold 2006 USD 500,000
- Global Holcim Award Silver 2006 USD 250,000
- Global Holcim Award Bronze 2006 USD 150,000

The prizes of the world-wide competition will be presented at the global Holcim Award ceremony in April 2006. All prizes will be awarded to the responsible author or team of authors listed by the applicants in the submission. All nominated projects are subject to a verification process conducted by the TCC and partner universities. Conferral of each prize is subject to a positive outcome of the verification process and compliance with local and international laws and regulations.



# Envirocore™

Environmentally-friendly family of products



# Holcim and the Environment



As an integral part of the Holcim Group, a global leader in the cement and construction materials industry, Holcim (US) Inc. is committed to sustainable development.

At Holcim (US), we take our environmental responsibility seriously -- it literally is our work. We work closely with local, state and federal authorities to conserve our natural resources and protect our communities. After all, we want our families and neighbors to live in a safe, clean and healthy environment

As one of the largest cement manufacturers in the United States, Holcim (US) produces the most important ingredient in concrete, a fundamental infra-

structure component of modern society. As such, we recognize our responsibility to provide a sustainable future. We recognize that our role in earning and keeping the trust and respect of our stakeholders — our employees, customers, communities, and shareholder — means a commitment to sustainable development. And we recognize our strong sustainable development performance is not only a prerequisite for our license to operate, but will fundamentally strengthen our business and the communities in which we operate.

#### **ECO-EFFICIENCY**

Eco-efficiency is simply defined as making more with less. This is achieved by producing goods and services using less energy and fewer raw materials while generating less waste and pollution.

Eco-efficiency is at the core of our industry as we recognize that cement production requires intensive use of natural raw materials and energy. Making cement also results in emissions to the atmosphere, the primary being carbon dioxide (CO<sub>2</sub>), one of the main greenhouse gases associated with global climate change. We aim to continuously improve our performance and increase our understanding of the challenges we face in moving toward environmental sustainability.

Holcim (US) has committed to managing and reducing its carbon dioxide emissions as a key priority and is implementing  $\mathrm{CO}_2$  reduction programs through clinker factor reduction, efficient thermal energy use, use of alternative fuels, raw materials, and reuse of cement kiln dust (CKD). The Envirocore<sup>TM</sup> family of products is an integral part of our eco-efficiency program.

For more information on the role of eco-efficiency and Holcim (US) Inc., please visit the sustainable development section at http://www.holcim.us.

# PERFORMANCE INDICATORS

#### **Clinker factor**

The clinker factor is the percentage of clinker in cement. Lowering the clinker factor reduces the amount of fuel required per ton of cement produced, and substituting the clinker with suitable substitute materials reduces the volume of virgin raw materials required.

## Thermal energy efficiency of clinker production

The thermal energy efficiency of cement plants is measured as the total thermal energy consumed per ton of clinker produced and is almost entirely a function of the technology applied in the production process.

## Thermal substitution rate

Substitution of fossil fuels by alternative, wastederived fuels is an important eco-efficiency driver because it reduces carbon dioxide emissions and use of natural resources.

#### Cement kiln dust (CKD)

CKD and a similar material, bypass dust, are collected from the airstream coming from cement kilns. When such products are reused and not disposed, eco-efficiency improves.

# Envirocore™



To meet society's changing needs, Holcim (US) is manufacturing a variety of environmentally-friendly products. The Envirocore™ family of products has been created to help achieve many of the eco-efficiency goals that Holcim has ambitiously undertaken.

These products may contain material that has been recycled or co-processed. While the exact mixture of these products may vary slightly from plant to plant, each family is classified according to their constituents.

Not only do these products support our sustainable development initiatives, but they are also manufactured to meet applicable quality requirements and may be used in many of the applications that a regular portland cement concrete is currently used. For more information on the specific products available in your area, contact your local Technical Service Engineer.

#### **ENVIROCORE™ FAMILY OF PRODUCTS**

Product Family	Ingredients	Specification	
		Requirements	
Envirocore 1000	>5% Slag	ASTM C 595 , C 1157	
Envirocore 2000	>10% Limestone	ASTM C 1157	
Envirocore 3000	Pozzolans	ASTM C 595, C 1157	
Envirocore 4000	Fly Ash (F or C)	ASTM C 595, C 1157	
Envirocore 5000	Multiblend 3 or more	ASTM C 1157	
	Cementitious Materials		
Envirocore 6000	Specialty Binders		
Envirocore 7000	Slag	ASTM C 989	
Envirocore 8000	Fly Ash	ASTM C 618	
Envirocore 9000	Masonry/Mortar Cement	ASTM C 91, C 1328, C 1329	

#### Envirocore™ 1000 - Contains >5% Slag Cement

Envirocore™ 1000 includes slag cement/portland cement blends that meet the requirements of ASTM C 595 Standard Specification for Blended Hydraulic Cements (AASHTO M 240) for either Type I(SM) (slagmodified portland cement - - < 25% slag cement) or Type IS (portland blast-furnace slag cement - - 25-70% slag cement).

#### Envirocore™ 2000 - Contains >10% Limestone

Envirocore™ 2000 includes hydraulic cements containing limestone that meet the requirements of ASTM C 1157 Standard Performance Specification for Hydraulic Cement for Type GU, and may meet HE, MS, HS, MH, and/or LH cements.

#### Envirocore™ 3000 - Contains Pozzolans

Envirocore™ 3000 includes pozzolan portland cement blends that meet the requirements of ASTM C 1157 Standard Performance Specification for Hydraulic Cement, ASTM C 595 Standard Specification for Blended Hydraulic Cements (AASHTO 240) for either Type I(PM) (pozzolan-modified portland cement - <15% pozzolan) or Type IP (portland pozzolan cement - 15-40% pozzolan). Pozzolans include materials such as kaolin clays, diatomaceous earth, volcanic ash and silica fume.

#### Envirocore™ 4000 - Contains Fly Ash

Envirocore™ 4000 includes fly ash (Class C or F) portland cement blends that meet the requirements of ASTM C 595 Standard Specification for Blended Hydraulic Cements (AASHTO 240) for either Type I(PM) (pozzolan-modified portland cement - <15% fly ash) or Type IP (portland pozzolan cement - 15-40% fly ash).

## Envirocore™ 5000 – Multiblend 3 or More Cementitious Materials

Envirocore™ 5000 includes hydraulic cements containing 3 or more cementitious materials (such as portland cement, slag cement, fly ash or natural pozzolans) and that meet the requirements of ASTM C 1157 Standard Performance Specification for Hydraulic Cement for Type GU, HE, MS, HS, MH, and/or LH cements.

#### Envirocore™ 6000 – Special Binders

Envirocore™ 6000 includes hydraulic binders containing materials such as portland cement, slag cement, fly ash, cement kiln dust, or others in various combinations. These products are not covered by any particular specifications but are monitored to meet quality and uniformity needs in special applications.

#### Envirocore<sup>™</sup>7000 – Slag Cement

Envirocore™ 7000 includes slag cement that meets the requirements of ASTM C 989 Standard Specification for Ground Granulated Blast Furnace Slag (AASHTO M 302).

#### Envirocore™8000 - Fly Ash

Envirocore™ 8000 includes Class C and Class F fly ashes that meet the requirements of ASTM C 618 Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolans for Use in Concrete (AASHTO M 295).

#### Envirocore™ 9000 - Masonry Cements

Envirocore™ 9000 includes masonry cements that meet the requirements of ASTM C 91 Standard Specification for Masonry Cement, C 1328 Standard Specification for Plastic (Stucco) Cement and C 1329 Standard Specification for Mortar Cement for Types M, S, and N.



# **Applications**

The **Envirocore™** environmentally-friendly products are manufactured to meet market needs in an eco-efficient manner and are engineered to be utilized in all portland cement applications.

**Envirocore™ 1000-5000** products are designed to meet all general construction uses and may offer additional benefits such as moderate to high sulfate attack resistance, reduced heat evolution, alkali-silica reaction (ASR) resistance, high early strength, and others.

**Envirocore™ 6000** products are designed for special performance applications such as soil stabilization, structural fill, road base material, and others.

**Envirocore™ 7000-8000** products are used to enhance the performance characteristics of concrete mixtures. When combined with hydraulic cement these products offer a variety of attributes such as increased strength, improved workability, reduced heat evolution, and enhanced resistance against deterioration due to ASR, sulfate attack, or harsh chemical environments.

**Envirocore™ 9000** masonry cements are typically used in the preparation of mortar or grout in masonry construction and offer the attributes of improved workability and finishability.

ASTM Specifications	C 150	C 595	C 1157	
Application	Specification Designation			
General Construction	I	I(SM), I(PM)	GU	
High Early Strength	III		HE	
Moderate Sulfate Resistance	II	I(SM), I(P)	MS	
High Sulfate Resistance	V		HS	
Low Heat of Hydration	IV	Added suffix designation = (LH) for low heat.	LH	
Moderate Heat of Hydration	II	Applying the moderate-heat optional requirement, designated with the added suffix (MH)	MH	

Note: As with portland cement, fly ash, silica fume, latex-modified and other concretes, the fresh and hardened properties may vary with different materials, conditions and practices for a given mixture design. Therefore, trial batches should be made to determine the concrete capabilities for the specific situation and to help the purchaser evaluate and select the most appropriate mixture. If there are questions about developing mixtures containing Envirocore products, please contact your local Holcim Technical Service Representative.

Any technical information or assistance the Seller or its affiliates provide is given and accepted at Buyer's risk and is not a warranty or a specification. The Buyer must become familiar with all hazards and precautionary procedures with respect to the handling, transportation or use of the product and will manage the product accordingly. Buyer must provide or make available any product safety information provided by Seller or its affiliates to Buyer's employees, to all others who handle the product, and to its customers. Buyer agrees to indemnify Seller for any claims made against Seller or its affiliates,

and for associated damages and expenses (including reasonable attorneys' fees and expenses), to the extent caused by Buyer's failure to familiarize itself with such hazards and precautionary procedures, to manage accordingly, or to provide such information as set forth above.

The products shall conform to applicable specifications of the American Society for Testing and Materials, and such other specifications as may be set forth in Buyer's Website order. Seller, having no control over the use of the product, does not guarantee finished work, nor shall Seller be responsible for the condition of the product after delivery to Buyer. Charges incident to inspection or testing made by or on behalf of Buyer to determine compliance with specifications shall be paid for by Buyer.

Please refer to the applicable MSDS for further important safety and product information.

Holcim (US) Inc. 6211 Ann Arbor Road Dundee, Michigan 48131 800.854.4656 www.holcim.us