



# IMERYS ImerFill™ Products

FOR CEMENT AND CONCRETE APPLICATIONS

*THE WORLD'S LARGEST  
SUPPLIER OF WHITE  
INDUSTRIAL MINERALS*

# REDUCE YOUR CARBON FOOTPRINT

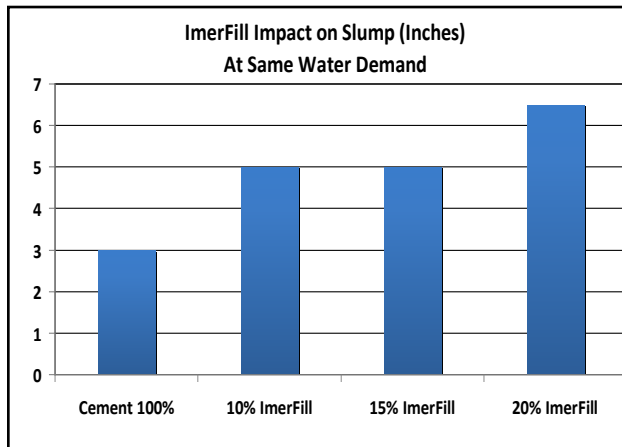
## ImerFill™ as a Cement Replacement

ImerFill™ products can be used to substitute part of the Portland cement or other cement replacement materials at enhanced performance while reducing costs.

ImerFill products reduce environmental impact, emitting substantially lower CO<sub>2</sub> compared to Portland cement.

### BENEFITS OF USING IMERFILL PRODUCTS

- Cost savings through reduced cement and chemical admixtures
- Reduced efflorescence
- Reduced or comparable set times
- Improved slump
- Reduced environmental impact
- Comparable or higher green strength

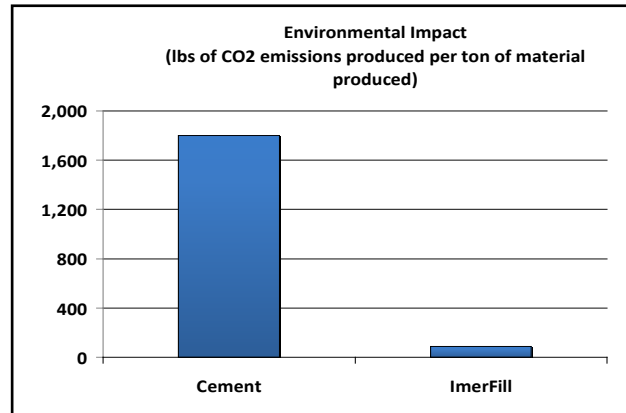


➤ ImerFill products are engineered to have a wide range of positive effects on concrete or mortar performance.

➤ The specifically designed particle size distribution optimizes particle packing with the other materials in the mix, resulting in beneficial effects on green strength, density, and durability through particle void reductions.

➤ Surface finish is improved through reduced segregation and bleeding, and improved mix fluidity and workability.

➤ Reduction in cement content yields various benefits in raw material costs, reduced chemical admixtures, and energy required in placing concrete.



*For every 2,000 lbs. of cement used, approximately 1,800 lbs. of carbon dioxide is released into the atmosphere. ImerFill products will reduce your carbon footprint; only releasing 88 lbs. of carbon dioxide.*



### APPLICATIONS

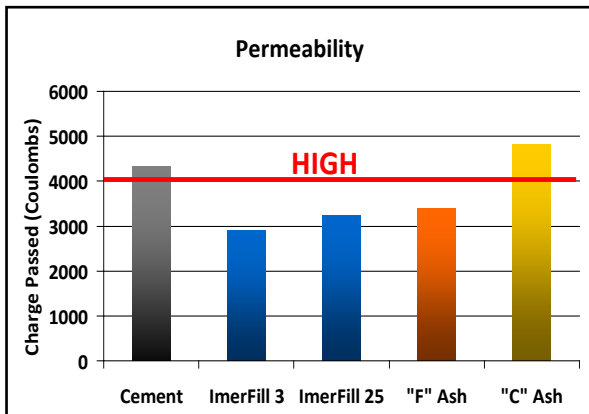
- Self-Compacting Concrete (SCC)
- Precast Concrete
- Blocks and Pavers
- Ready-Mix Concrete
- Mortars/Grout

# IMPROVED PERFORMANCE WHILE REDUCING COSTS

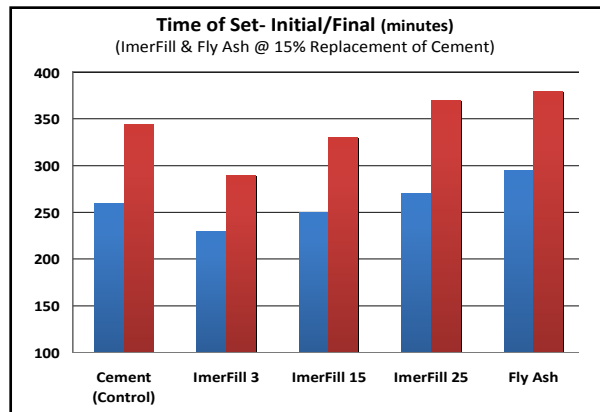
IMERFILL PRODUCTS ARE HIGH PURITY, ENGINEERED MINERALS DEVELOPED FOR THE CONCRETE INDUSTRY.

ImerFill™ products are engineered minerals that enhance the properties of concrete and other cement-based products. ImerFill products are specifically designed to replace a portion of Portland cement in concrete applications. They also can be used as an additive or to replace fly ash. Strictly controlled particle distribution and sizing ensure consistent performance in every batch of concrete. The white color of ImerFill products enhances appearance and aesthetics while improving the consistency of the color of the concrete.

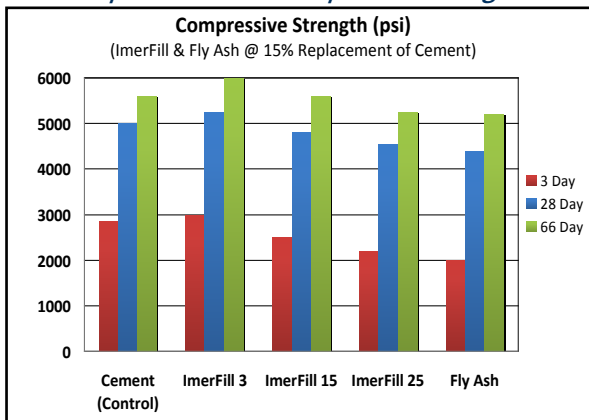
*Improved Efflorescence and Density*



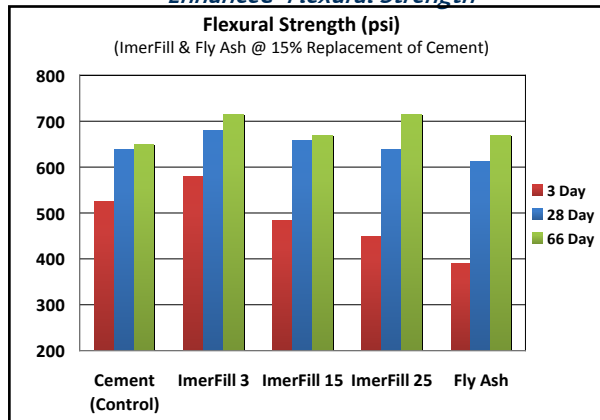
*Improved Time of Set*



*Equal or Greater Compressive Strength*



*Enhanced Flexural Strength*



# SERVING CUSTOMERS WITH INNOVATIVE SOLUTIONS

**ImerFill 3** is a fine ground white marble used as a cement extender in concrete mixes. Its fine particle size distribution has been found to provide water reduction, enhance rheological properties, improved surface finish, reduced segregation and reduced cement usage in various concrete formulations.

**ImerFill 15** is a medium ground white marble used as a cement extender in concrete mixes. Its particle size has been engineered to the same size as the cement particles or finer which has been shown to provide savings through cement reduction, reduced segregation and improved flow and surface finish in concrete formulations.

**ImerFill 25** is a coarse ground white marble used as a cement extender in concrete mixes. It has been shown to provide savings through cement reduction, improved flow and surface finish in concrete formulations.

**ImerFill 125** is a fine white marble that has been sized to fill the voids within the ASTM C-33 sand as well as allowing the cement particles to fill the voids created by the ImerFill 125. The result is a denser product requiring less water and admixture and, in some concrete formulations, less cement.

## Other Imerys Product Offerings Include:

- Metakaolin
- Aggregates
- HCP - Certified Recycled Products
- Diatomaceous Earth
- Perlite



**CUSTOMER-DRIVEN** IMERYS WORKS ACTIVELY WITH CUSTOMERS TO DEVELOP NEW AND INNOVATIVE SOLUTIONS TO SOLVE THEIR TECHNICAL CHALLENGES. AS A GLOBAL LEADER IN WHITE MINERALS, IMERYS BRINGS ITS UNIQUE KNOWLEDGE, TECHNOLOGY AND UNRIVALED DEPTH OF APPLICATION EXPERTISE TO IMPROVE THE VALUE OF OUR CUSTOMERS' PRODUCTS.

**NEW PRODUCT DEVELOPMENT** IMERYS IS CONTINUOUSLY CREATING NEW AND BETTER WAYS TO TRANSFORM MINERAL RESOURCES INTO HIGH-PERFORMANCE, SOLUTION-DRIVEN PRODUCTS.

**ENVIRONMENTAL POLICY** IMERYS IS COMMITTED TO BEING A GOOD NEIGHBOR TO OUR ENVIRONMENT AND WE TAKE THIS RESPONSIBILITY VERY SERIOUSLY. WE HAVE ADOPTED THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT, WHICH INCLUDES EXTENSIVE TRAINING PROGRAMS AND CONSIDERABLE INVESTMENT IN ENVIRONMENTAL PERFORMANCE IMPROVEMENT.

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