

# Pennsylvania—Pioneer of the American Portland Cement Industry

## *Cement and Concrete is a Vital Industry to the Keystone State*



**LEGEND**

- ▲ Cement Plant
- ▲ Cement Terminal
- ▲ Cement Company Headquarters
- Ready Mixed Concrete Plant
- Concrete Product Manufacturing

### **Pennsylvania is the birthplace of the United States portland cement industry**

- David O. Saylor built the first portland cement kiln at Coplay, PA in 1871

### **Pennsylvanians produce about 6.4% of all portland cement in the nation**

- Pennsylvania is the third largest cement manufacturing state in the Nation (following Texas and California).
- There are nine cement plants in the Commonwealth with a combined annual production capacity (finished grinding capacity) of approximately **8.3 million short tons**
- Four cement companies (Armstrong, Buzzi-Unicem, Essroc and Keystone) have their corporate or US Headquarters in Pennsylvania. Other cement companies with operations in Pennsylvania include Cemex, Federal White, Lafarge, Lehigh and Holcim
- The concrete, cement and related industries employ almost 40,000 people in Pennsylvania. That is more than the entire population of State College.
- According to the most recent data available from the U.S. Economic Census for Construction & Manufacturing for Pennsylvania, the combined annual contribution of the cement and related cement based products industries to the economy of the Commonwealth is approximately **\$6.4 billion**. In addition, these industries **contribute close to \$433,000,000** in other state, local, and federal taxes

### **Cement Consumption**

- Pennsylvania consumes about 3.6 million short tons per year, or 44% of the material that is manufactured in Pennsylvania. The remaining 56% of portland cement is shipped outside of the state.
- Pennsylvania currently ranks ninth among the states in consumption of portland cement.
- The use of portland cement nationally is used in a variety of markets, including public construction (47%), residential buildings (25.1%), nonresidential buildings (22.2%), and other categories (5.7%).

### **Environmental Benefits**

- Concrete is among the most recycled construction materials in the world. 140 million tons of concrete are recycled in the United States each year
- The cement industry has reduced energy consumption for cement production by 37.5% since 1972
- The cement and concrete industries are major consumers of slag and fly ash, by-products of steel mills and coal fired power plants. The cement industry also uses millions of scrap tires as an alternative fuel source while helping local communities solve their tire disposal problems
- Portland cement is often a critical component of remediating brown-fields, providing an efficient and environmentally sound solution for stabilizing and solidifying hazardous wastes in contaminated soils. Cement is also used to treat acid mine drainage problems for the coal mining industry

Sources: US Census Bureau, (2002)  
 Portland Cement Association (2006)  
 PCA/Northeast Cement Shippers Association (2009)  
 Construction Materials Recycling Association (2009)

For information about the benefits of concrete pavement, please visit us on the web at [www.pa.pavement.com](http://www.pa.pavement.com)

