

# Chemstar Type S Lime

*It's the Choice of Architects, Specifiers, Engineers, Contractors and Masons, for a High Performance, Cost Effective Mortar.*

**CHEMSTAR**

**TYPE S  
LIME**



 **Chemical Lime**  
A Lhoist Group Company

# Superiority of Cement-Lime Mortar

In independent university and Brick Industry of America studies, cement-lime mortars consistently outperformed ASTM C270 mortar cement and masonry cement types by a significant margin. Compared to the other mortar types and mortars made with clay and air entraining agents, cement-lime mortar with Chemstar Type S lime delivered:

- Two to four times the flexural bond strength
- 20-40 times better resistance to water penetration
- 2-3 times the boardlife
- Excellent compatibility with all types of clay bricks and concrete masonry units
- Superior compatibility with white cement reducing flash setting

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# Chemstar Type S Lime . . . it belongs in your mortar

When it comes to workability, boardlife, and sand carrying capacity, nothing is better than a cement-lime mortar with Chemstar Type S lime. And nothing enhances the quality and productivity of your masonry project like Chemstar Type S lime. By specifying Chemstar Type S lime, you are providing your customers with the best flexural bond strength and resistance to water penetration available. No wonder it is the market leader.

## Chemstar sets the standard

While cement-lime mortar is superior to other compositions, mortar made with Chemstar Type S lime is clearly a cut above the rest. Produced from the calcination of high quality dolomite and subsequent pressure hydration of the resulting quicklime, Chemstar Type S lime meets or exceeds all applicable standards, including:

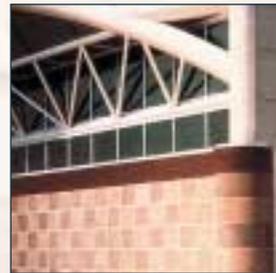
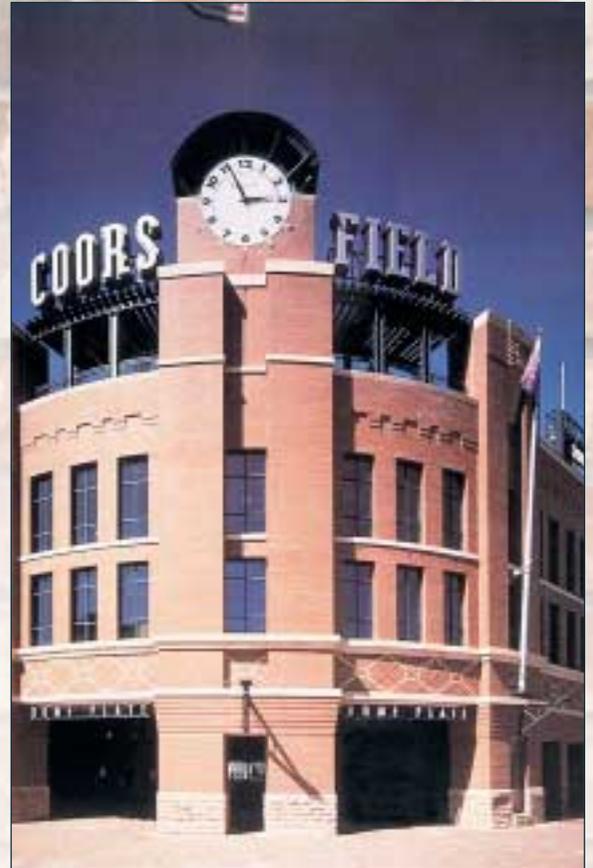
- ASTM C 207
- ASTM C 206 (Henderson and New Braunfels production)
- Uniform Building Code (UBC) standard 21-13
- International Building Code (IBC) 2000, 2103.7

As a result of their very small size (1/100th of a micron) the Chemstar Type S lime particles have very special properties which yield the following, significant benefits:

- Prolonged cement hydration for increased boardlife
- Excellent water retention
- Use of marginal mortar sand, as every grain is fully coated
- Maximum sand yield
- Superior workability
- Improved mortar consistency due to high dispersing properties.

## Chemstar meets the code

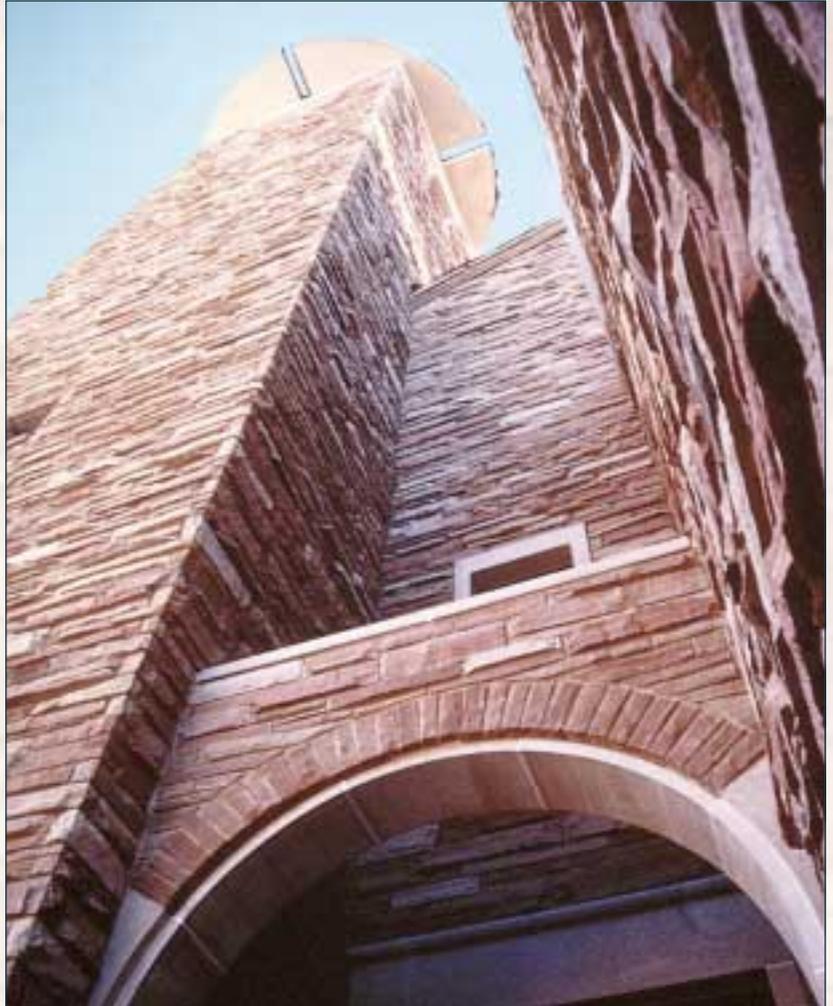
Building codes, including IBC and UBC standards, recognize the flexural bond strength of cement-lime mortars. Unreinforced masonry walls built using cement-lime mortars are allowed by code to accommodate a lateral load (i.e., seismic or wind driven) 67% greater than either masonry cement or mortar cement. In fact, masonry cement is not even allowed in seismic zones because of its deficiencies in bond strength. Chemstar Type S lime goes a step further by helping to knit the mortar to the masonry unit surface. This enhances the bond and promotes the early hydration of the cement, assuring full development of mortar strength during the first few critical days.



# When Results Count

Chemical Lime Company, North America's leading producer and supplier of lime for building construction, supports your business with an expert team of technical and application specialists. Their function is to work with you, ensuring you achieve the best possible results from product development to mortar testing and analysis. Our production facilities in Nevada, Texas, and Utah supply Chemstar Type S lime to knowledgeable building material dealers across the country. Chemstar Type SA hydrated lime is manufactured at our facility in Texas and is available throughout that market.

Headquartered in Fort Worth, Texas, Chemical Lime Company serves a variety of industrial markets from 55 locations in North America. Chemical Lime Company is a member of the Lhoist Group headquartered in Brussels, Belgium.



Safety information is contained in Material Safety Data Sheets (MSDS) available from your supplier or directly from Chemical Lime Company by fax or our website.



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