



# Product NEWS

## Lime slurry supply

W.K. Merriman, Inc. is a leader in chemical marketing and environmental technology, supplying quality chemicals to a variety of industries for over 20 years. Last year, the company began supplying manufactured lime slurry (calcium hydroxide) to both abandoned and active mine sites for pH adjustment and metals removal. A highly effective, low-cost alkaline chemical, lime slurry is easy to use and has a great deal of versatility. The use of this product can result in significant savings, in addition to increased performance and safety. Chemical Lime Company (CLC) is one of North America's leading producers and suppliers of calcium hydroxide slurry products, and W.K. Merriman, Inc. is its industrial tech-seller.

The slurry is manufactured to specifications maintaining the solids between 30 - 40%. The company is able to provide onsite service to ensure a smooth transition to optimise the utilisation of lime slurry.

Calcium hydroxide slurry is a low cost source of hydroxide alkalinity and has a proven track record of stable pricing, compared

with the high cost and volatility of caustic soda. Price stability means that customers can establish and manage operating budgets – both short and long-term.

The company's manufactured lime slurry is ready to use, easy to feed, monitor, and control due to user-friendly product properties. Storage and feed systems are simple; an agitated tank is all that is required. Feed of calcium hydroxide slurry is reliable; no problems with bridged silos, plugged feeds, or fugitive dust as associated with hydrated lime or calcium oxide. Associated maintenance



costs, manpower, and processing time are significantly reduced.

Lime slurry provides several environmental and safety advantages over caustic soda, hydrated lime and calcium oxide. Calcium hydroxide slurry is non-hazardous, simplifying transportation, storage, and handling. Fugitive dust is eliminated, so there is no need for an air permit and the potential for injuries associated with blending dry lime is eliminated. Altogether, the reductions realised in labour, equipment and maintenance, and processing costs makes manufactured lime slurry an excellent alkaline solution.

The company currently supplies an abandoned mine site in West Virginia with lime slurry. After switching from caustic soda to lime slurry, this facility has claimed to see cost savings and improved water quality in its ponds. The company has also converted an active mine site in West Virginia from caustic to lime slurry. In one week, this facility saw cost savings and increased metals removal in its discharge.

## Wobbler feeder

Raw materials which call for pre-crushing prior to further processing usually contain a high proportion of fines that do not actually need to be submitted to such initial pre-crushing treatment. In addition, these fines often contain a high concentration of moisture and abrasive matter, so that it is advantageous to eliminate them from the material flow upstream of the crushing process. The Hazemag wobbler feeder has a screening surface incorporating a series of rotating shafts with defined gaps through which the fines can pass. According to the degree of separation required, the shafts are

fitted with discs. The elliptical or triangular shape of the discs promotes the conveying process and prevents jamming or clogging.

The adjustable wobbler feeder is in two sections, the first section comprising



fixed shafts spaced at the minimum gap setting required. These shafts can be actuated by a common drive unit via roller chains, or by means of individual drives with flexible couplings. This first section serves only for pre-screening and to relieve the load on the second section. The second section has adjustable shafts, each shaft having its own individual drive unit. The shafts are fitted with a specially designed hydraulic adjusting device which enables the gaps to be evenly widened or closed as required.