

Project
Profile

Ano-Coil Limited. Quicklime Slaking System, Milton Keynes.

®
Portasilo



In order to satisfy the ever increasing demand for large scale, cost effective methods of effluent treatment, two industry leaders, Portasilo Bulk Handling Systems and Buxton Lime Industries(formerly ICI Lime Products) have jointly developed a cost effective Quicklime treatment plant. By incorporating sound engineering practices and experience with Quicklime, problems normally associated with Quicklime plants have been resolved.

In the past, the requirement of more complex slaking plant, with Grit removal facilities, to process and store the Quicklime, had meant that the total plant costs outweighed the advantage of utilising Quicklime for the small to medium usage range. The development of the Portasilo/BLI slaking package using fine ground, highly reactive Quicklime has removed the necessity for complex Grit removal plant.

More and more medium Quicklime usage applications are now becoming economically viable. The Portasilo/BLI system is used by Ano-Coil of Milton Keynes, a major producer of Anodised Aluminium coil and sheet, which needed an effluent treatment facility that could readily cope with expanding total factory output whilst meeting stringent regulations on outfall waste.

With its extensive customer care facility, BLI was brought in at an early stage to discuss the Client's requirements. Once these were ascertained, Portasilo and BLI put together a scheme based on their single stage, slaking package using highly reactive Quicklime.

The plant consists of a Quicklime storage silo of 70m³ capacity, of skirted design with twin outlet cone and associated discharge systems, and two tanks which, through the sophisticated control system, can be utilised as either slaking or holding tanks. Each tank has a range of instrumentation to consistently produce 6.25m³/hour of Milk of Lime.

A micro processor based control system, with patented design, sequentially controls the

slaking, storage and transfer of the Quicklime in a safe and controlled manner.

All plant and chemical actions are constantly monitored and their impact on Milk of Lime consistency noted and compensated for within the preset limits of Quicklime and water addition.

On completion of slaking, the Milk of Lime is held in the slaking tank for a stabilisation period. The Milk of Lime is then pumped from the slaking tank into a common re-circulatory ring main and routed back into the appropriate holding tank via pneumatically operated valves.

With a greater than 99% availability of product over its first year of production, the fully automatic, Portasilo/BLI Quicklime slaking package has proved that its reliability is beyond doubt.

The uniqueness of this newly developed system is in its use of basic tried and tested components. These are brought together in a very flexible arrangement and controlled by state of the art systems, quickly and effectively to produce large quantities of Milk of Lime solution, without the need for complicated Grit removal equipment.



Portasilo[®]

Bulk Handling Systems

Find out how Portasilo can solve your bulk handling and storage problem by contacting The Sales Manager

Portasilo Ltd. Huntington York, England. YO3 9PR. Tel. 01904 624872 Fax. 01904 611760.
International Dialling Code +44 1904. e-mail: bulk@portasilo.co.uk

PORTASILO is a registered trade marks. © PORTASILO Ltd, 1998. BH 551