



alkali solutions



Alkalis For Water and Waste Water Treatment

Advantages:

- High strength – 45%
- Reactive & fluid
- Stable in suspension
- Non scaling
- Reg 31 approved



A drinking water approved concentrated (45%) lime solution for pH correction.

Puresol is approved under Reg 31 for use in public water supplies in the UK.

Puresol is manufactured using the LimeCure™ additive which creates a reactive, fluid non scaling lime solution.

Puresol is a low cost alternative to caustic and other liquid lime products



A high concentration, non scaling, reactive lime solution for use in waste water treatment.



Limesol is a high strength 45% lime slurry which is fluid and stable.

The LimeCure™ additive used to produce Limesol creates a reactive, non scaling, low viscosity product.

Trials have demonstrated usage reductions of up to 30% due to the increased reactivity of Limesol compared with other milk of lime products.

Limesol is suitable for:

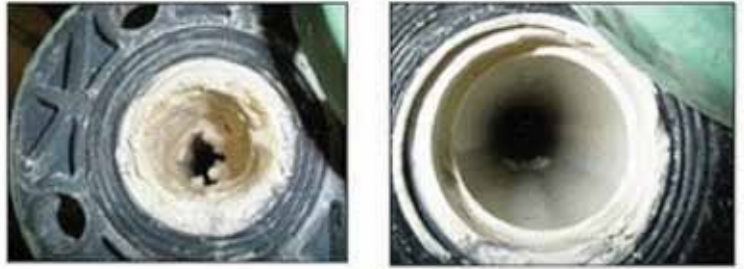
- pH correction
- Fluoride removal
- Heavy metal removal
- Improving DAF performance
- Phosphate removal

LimeCure™ – the technical bit

LimeCure™ is a patent protected additive developed by Applied Specialties Inc of the US to create high performance lime solutions.

Non Scaling:

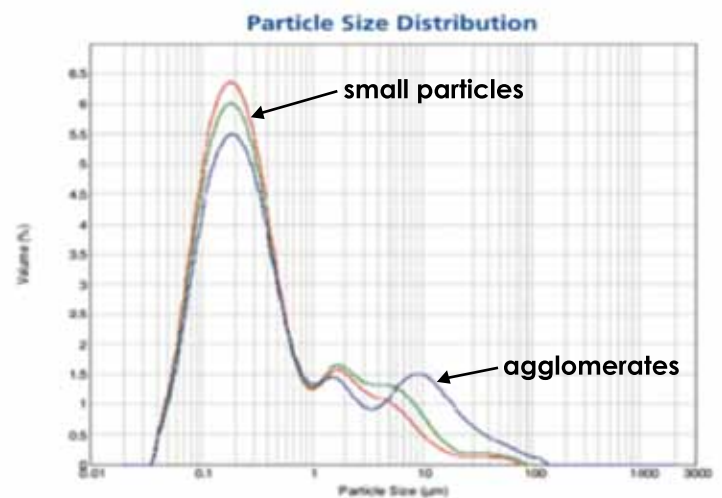
The additive reduces scaling by lowering the attraction of the lime particles to each other and the pipe wall. The photo shows before and after using a LimeCure™ slurry.



Reactive:

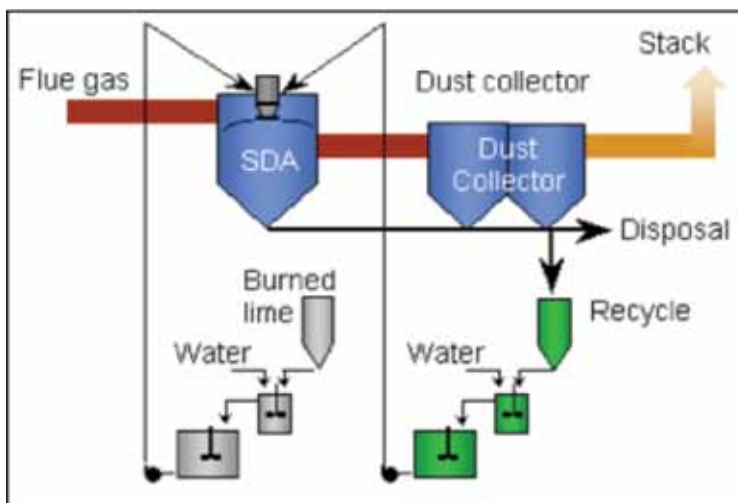
The additive also reduces agglomeration resulting in smaller particles, a higher surface area and greater reactivity. The graph shows a higher peak of small particles than the agglomerations in the right hand peak. Other products would show a much larger right hand peak.

The greater reactivity results in a lower usage of products using the LimeCure™ additive versus other products.



LimeCure™ - for customers who manufacture their own slurry:

Lime slurries for spray dry absorbers in waste to energy plants are an application where LimeCure™ has delivered significant customer benefits.



Typical process flow sheet

- Reduced usage of lime through a greater surface area for absorption
- Resulting in lime usage reductions and air pollution control (APC) dust disposal cost reductions
- Fewer blockages and reduced acid cleaning of lines reducing operating costs
- Better off gas performance

Technical Support

We provide technical support to all our customers on improving mixing, reducing scaling and other measures to reduce your lime usage and costs.

Trials can be arranged either using your equipment or by using IBCs or our trial silos to enable you to safely assess our product alongside your existing product.

Call us to arrange a visit to assess whether we can deliver you the reductions in use by using of Limesol, Puresol and LimeCure™.

Storage of Product

We advise that Limesol and Puresol are stored in stirred tanks or tanks with a small recirculation system. Despite the settling characteristics of our products being excellent, stirring once a day for 30 minutes or an intermittent recirculation is advisable. If product is allowed to settle for any length of time it will re-fluidise easily.

On site advice is available on request.

Delivery

Limesol and Puresol are delivered throughout the UK in 28t bulk tankers or IBCs. LimeCure™ is delivered in 1.2t IBCs or 200kg drums.

Contact Us:

Tel 01299 896825
Email sales@alkalisolutions.co.uk
Web www.alkalisolutions.co.uk

Jacobs Well
Suffolk Lane
Abberley
Worcestershire
WR6 6BE



alkali solutions

Alkali Solutions is continually improving our products and services and recommend customers visit the website regularly for recent developments.

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