

LimeCure 50

DESCRIPTION

LimeCure 50 is a concentrated acrylic polymer that was designed to generate a low viscosity lime slurry by preventing agglomeration of the slurry particles. **LimeCure 50** creates slurry of very small particle size and thus one with a high surface area. This use is covered by US Patents 7,718,085 and 7,897,062 and a US Patent Pending.

Because slurries made with **LimeCure 50** contain a large surface area, reaction time is faster and product utilization is increased. This benefit results in significant reductions in lime consumption. In addition, **LimeCure 50** controls the formation of calcium, magnesium and iron scales in the feed systems and transfer piping.

LimeCure 50 is NSF certified for use in treating lime slurries in potable applications.

TYPICAL PROPERTIES

Appearance	Clear to hazy, straw-colored liquid
Odor	Mild
Specific Gravity	1.210 ± 0.025
pH	3.5 ± 1.0
Flash Point	> 100°C (212°F)
Solubility in Water	100%
Freeze Point	< 0°C (32°F)
Freeze/Thaw	Heat & Remix. Will tolerate 3 cycles

HEALTH AND SAFETY INFORMATION

As with any chemical, the operator should be completely familiar with the safe handling of **LimeCure 50** before it is used. The **Material Safety Data Sheet** should be read and understood before **LimeCure 50** is used. The level of residual Acrylic Acid monomer is less than 1 ppm.

ADVANTAGES

- ◆ Prevents the accumulation of deposits and scales in slaking equipment.
- ◆ Generates low slurry viscosities.
- ◆ Creates smaller slurry particles sizes.
- ◆ Improves slurry reaction rates.
- ◆ Reduces lime usage.
- ◆ Non-foaming - Non-corrosive.
- ◆ Safe to handle.

APPLICATION

LimeCure 50 is beneficial in all slaker systems and reduces the equivalent amount of lime used in nearly all applications. The cost of **LimeCure 50** is more than justified by the reduction in lime costs.

LimeCure 50 has particular benefit in utility plant Spray Dry Absorbers (SDA) and other types of scrubbers where lime slurry is utilized. Formation of smaller particles increases the surface reactions with the SO_x. This improves overall performance reducing excess lime use. The lower viscosity assists in generating a finer spray of lime slurry into the gas stream. Control of SO_x is improved and less erratic when using AS-8750. These features reduce direct lime use and associated maintenance costs.

The heavy duty anti-scalant properties of **LimeCure 50** make it an ideal choice in treating lime slurry systems that have a history of severe fouling or scaling. This reduces man hours associated with system cleaning at scheduled outages.

Existing deposits can sometimes be removed with **LimeCure 50** during on-line operation. Because deposits are removed gradually, blockage and fouling in critical equipment does not occur.

Once the on-line cleaning procedure is complete, the scale inhibiting properties of **LimeCure 50** keep the system clean by preventing future formation of new scales and/or deposit.

LimeCure 50

CONTROL AND FEEDING

LimeCure 50 should be fed directly from its shipping container or a bulk storage system.

LimeCure 50 should be injected using a properly sized chemical metering pump into the slaking or secondary dilution water. Continuous feed is recommended for proper treatment control.

Application dosage may vary, but your Alkali Solutions technical engineer will assist you with an on-site test to determine what optimum for your system is. Your ASL engineer will also assist you in identifying the best application point and assist in sizing and selecting of any necessary feed or control equipment.

HANDLING AND STORAGE

When handling any chemical, proper care and good housekeeping should be exercised. Consult the Material Safety Data Sheet for specific spill reporting, clean up and disposal procedures.

Spills of **LimeCure 50** should be cleaned up immediately.

Storage in glass, stainless steel, plastic or epoxy-lined vessels is recommended. Do not use aluminum, copper or iron in feed or storage systems. The shelf-life of this product is 18 to 24 months in a closed shipping container not subject to temperature extremes.

If **LimeCure 50** freezes during shipment or storage, it may be thawed and used after agitation to insure homogeneity.

PACKAGING

LimeCure 50 is available in 1 te IBCs. **LimeCure 50** may also be obtained in bulk tank trucks. For information on these and other delivery systems, contact your ASL Representative.

DOT INFORMATION

<i>Proper Shipping Name:</i>	INDUSTRIAL WATER TREATING COMPOUND
<i>Hazard Class:</i>	Not Regulated
<i>UN Number:</i>	NA
<i>Packaging Group:</i>	NA
<i>Labeling Required:</i>	None
<i>DOT RQ:</i>	None

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