



CONSTRUCTION - APPLICATION

Soil Modification Solutions

MINTEK IS YOUR ONE-STOP SHOP FOR CALCIMENT® LKD, QUICKLIME & MORE!

- Mintek solutions are perfect for high quality base construction.
- Reduced plasticity to minimize the potential of shrink / swell due to freeze / thaw & wet / dry cycles.
- Continued strength gains over time due to cementitious bonds continuing to form.
- Achieve optimum moisture content regardless of ambient conditions for easier compaction.



CHICAGO O'HARE AIRPORT

PROJECT OVERVIEW

CHICAGO O'HARE AIRPORT

➔ **Construction Stabilization
Dose Rate: 4.5 - 6%**

- The O'Hare Modernization Program was one of the largest projects in the country which involved reconfiguring of the runways.
- Calciment® LKD was used to modify the high PI soil.
- Over 40,000 tons of Calciment® LKD were laid at a 4.5 - 6% dose rate to improve workability of the subgrade platform.

MODIFICATION FOR MORE WORKABLE SOILS

Mintek's economical reagents offer fast reactivity and long-lasting results to save time, money, and keep your projects on track.

Dramatically improve the workability of wet, muddy soils with our lime-based chemical reagents.

Soils with a high plasticity index (PI) retain moisture, and expand and contract during wet / dry and freeze / thaw cycles leading to early failure of the building pad or pavement put in place. When faced with high plasticity native soils, chemical modification, while lime-based reagents such as quicklime or Calciment® LKD, will quickly reduce the moisture content for better stability and compaction. By reducing the plasticity, the potential for shrink / swell during wet /dry and freeze / thaw cycles is minimized, therefore ensuring the long-term integrity of the base. In addition to the immediate reduction in moisture and improvements in PI, strength will continue to develop over time due to the formation of cementitious bonds between the clay particles.

Mintek not only offers a variety of products designed to meet the needs of the construction industry, we also have a technical support team to help you select the right product and dose rate for your specific job site requirements. All of Mintek's products are available in multiple packaging and delivery options from multiple distribution points to ensure assurance of supply for any size project.



IMPROVE COMPACTION



REDUCE PLASTICITY



INCREASE STABILITY



**MINIMIZE
SHRINK / SWELL**