

Gypsum Solutions

**Product News and Technical Reports from
the Industrial Products Division of United States Gypsum Company**

Application – Golf Courses
Fairways, Rough, and Tees

Product
USG™ 500 Landplaster

Summary
USG 500 Landplaster, a natural gypsum product (calcium sulfate dihydrate) available in bulk only, offers a highly effective, environmentally-friendly solution for improving the structure of heavy clay soils and for remediation of sodium toxicity in soils that have high salt exposure from proximity to coastal regions or from salt-contaminated irrigation water.

For More Information
United States Gypsum Company
Industrial Products Division
125 South Franklin St.
Chicago, IL 60606
Phone: 800.487.4431
Email: industrial@usg.com

The Industrial Products Division of United States Gypsum Company is a leading producer and marketer of a wide range of industrial products used in plastics, coatings, tooling, construction, agriculture, pharmaceuticals, food processing, statuary, ceramics, road repair and other applications.

USG™ 500 Landplaster — High Purity, Easy Handling, Fast Acting Gypsum for Soil Structure Improvement and Sodium Remediation on Golf Course Fairways, Rough, and Tees

US^G™ 500 Landplaster is an excellent, readily available source of gypsum for remediation of soil-related problems associated with high clay content, compaction, and/or high sodium content. Gypsum effectively opens up “micro channels” in the soil by aiding in the flocculation of dispersed clays and organics. This leads to improved water and oxygen penetration, which translates to greater root development and plant vigor. Gypsum aids in rectifying salt toxicity by “binding up” the sodium ions as sodium sulfate, which can then be leached out of the root zone. Finally, gypsum provides two essential elements needed for complete turf nutrition and health – calcium and sulfur.



Photo courtesy of the Center Square Golf Club.



USG 500 Landplaster is a natural mineral product that is quarried, then crushed to a size that offers superior performance for broadcast applications and efficient “time release” of calcium and sulfate sulfur. It is an ideal product for golf course tee, rough, and fairway use. USG 500 Landplaster is not recommended for use on golf course greens. Contact your local USG Sales Representative for more information.

Special Benefits of USG™ 500 Landplaster

- Supplies readily available calcium and sulfur without significantly affecting soil pH.
- Improves soil structure, reduces surface crusting, and aids water penetration/absorption and aeration.
- Binds sodium ions with sulfate ions, thereby facilitating the removal of sodium through leaching from the root zone. This helps to minimize salt toxicity related to “gray water” or process water irrigation sources as well as irrigation or weather-borne contamination in coastal regions.
- Is 150 times more soluble than limestone (calcium carbonate)
- Spreads easily in broadcast equipment under a wide range of weather conditions and requires only one applicator/operator.
- Multi-sized to provide a time-release effect, ensuring a supply of calcium immediately and throughout the season.
- Can improve drought tolerance through better soil structure and better plant health.

Product Characteristics

Chemistry	Minimum Guarantee	Typical Screen Analysis		Bulk Density	
		Particle Size Range (Mesh)	Approximate Percent	Loose lb./cu.ft.	Packed lb./cu.ft.
CaSO ₄ equivalent	70%	+4	~6.75%	82	94
Ca (elemental)	21%	-4 +20	~57.5%		
S (elemental)	16%	-20 +100	~23.25%		
		-100 mesh	~12.5%		

USG 500 Landplaster is one of several products developed and offered by USG for improved turf management and surface water quality. Contact your local representative for details.

