TerraLOC 16 %

GSA – 919514 (Tote)
919513 (Drums)

NSN - 6850-01-577-1795 (Drums)
6850-01-577-1771(Tote)

Description

TerraLOC™ solution is a soil penetrant dust palliative to be used on sand soils as classified by USCS, MIL-STD-619B; moderately permeable, coarse-grained soils containing an appreciable amount of fines encompassing USCS types SM, SC, SM-SC, GM, GC, GM-GC, and GW-GM. CL sands (with little or no fines) and on highly permeable sands or gravelly sands containing little or no fines encompassing USCS types SW-SM, SP, and SW. **TerraLOC**, a solution of Polyvinyl Alcohol (PVOH) and additives, is particularly effective on loose and dry or slightly damp surfaces such as desert soil.
Ideal pertaining areas are "non traffic" or "occasional traffic", such as:

- Helicopter Landing Zones (HLZ)
- Areas bordering airfield or heliport complexes.
- Graded construction areas.
- Denuded areas around the periphery of completed construction projects.

Applications

After curing, **TerraLOC** acts like a net - capturing the unbound or un-compacted soil overlaying the soft to firm sub-grade. While its special tackifying agent allows small airborne particulates to be captured after application, its ionic formulation increases the adhesion to sand particulates. **TerraLOC** solution does not exhibit rutting phenomena and its resistance to helicopter downwash is increased.
Treatment creates a surface strong enough to support occasional light-vehicle traffic and is ideal for flat or moderately sloped terrain. If traffic conditions change and passes or crossings along the treated area increase, treatment must be repeated at higher rate.

"Brown-out" from helicopter landings on unimproved areas represents one of the major factors in **US Army aviation accidents**. Particularly adapted for **helicopter landing pads** and **airfield surrounding areas**, **TerraLOC solution improves systems lifecycles** and **decreases unscheduled maintenance costs**.

The application of **TerraLOC** solution may be accomplished with any type of liquid distribution system such as a water truck or trailer w/ hand hose. The spray apparatus should be positioned directly above the area being treated to preclude driftage. Runoff during application should be avoided.

Facts

- ✓ **TerraLOC** is biodegradable and is not an obstacle to underground fauna. Treated soil appears as if wet, without any particular coloration.
- ✓ **TerraLOC** can be washed out by hot or cold water; no organic thinners are required to clean equipment; **TerraLOC** is non-corrosive.
- ✓ **TerraLOC** is non-toxic and skin contact is not hazardous; it may be readily washed off with water.
- ✓ **TerraLOC** does not generate fumes.
- ✓ **TerraLOC's** application temperature is recommended to be >65^{O}F, while the recommended storage temperature range is wide (50^{O}F ÷ 120^{O}F).
- ✓ **TerraLOC's** lifetime depends on factors such as weather, traffic etc., but it can last up to 4 months. Tests at Yuma Proving Ground have reported no significant degradation in performance 120 days after application
- ✓ Concentrated **TerraLOC 16D** solution application rates range from 200 to 1,500 gal/acre depending on conditions
- ✓ **TerraLOC's** curing time ranges between 3 and 24hrs.
- ✓ **TerraLOC** can be applied at any time of the day although curing times will increase with lower temperatures of air and soil.
- ✓ **TerraLOC** improves rotor crafts' systems lifecycles
- ✓ **TerraLOC** decreases unscheduled maintenance costs of vehicles, rotor-craft and other systems

References:

- *Joint Departments of the Army and Air Force USA, technical Manual TM 5-830-3/AFM 88-17, Chapter 3, 30 September 1987*
- *Military Soils Engineering FM 5-410 Chapter 9*

www.terraloc.com

TerraLOC is the Solution

 updated 9/14/09