

PL100SS

Technical Information

Description

PolyLevel® 100SS is a low viscosity, polyurethane resin designed to penetrate and stabilize loose or sandy soil when medium or high strength is required. It migrates through loose soil and into voids and reacts with moisture in the soil to form a polymer cement/soil matrix of high strength and durability. PolyLevel® 100SS is resistant to most organic solvents, mild acids and bases, and micro-organisms. The polyurethane encapsulates loose soil, fills voids, and forms a solid, water-tight barrier.

Unique Advantages

- Contains no solvents
- Very low viscosity for good penetration
- Fast cure time controlled by catalyst ratio and/or moisture in the treated soil
- Encapsulates and strengthens loose soil
- Forms a water-tight barrier to stop water migration
- Good resistance to chemicals
- Excellent compressive strength and thermal stability (over 1,000 psi in sand)

Typical Resin Properties

@77°F

	<u>PolyLevel® 100SS A</u>	<u>PolyLevel® 100SS R</u>
	<u>Soil Stabilizer</u>	<u>Activator</u>
Viscosity:	25 – 50 cps	100 - 200 cps
Unit Weight:	10.25 lb/gal	8.5 lb/gal
Shelf Life:	6 months	6 months

Typical Reaction Properties

<u>% Activator</u>	<u>Gel Time@ 77°F</u>
0.5	12-16 min
1.0	8-11 min
2.0	6-7 min

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Application Information

Storage and Clean-up:

Activator MUST be agitated (shaken) before use. Flush equipment with acetone before and after use to clean equipment and remove moisture. If work area temperatures are low, heat the product to 55°F - 85°F to improve product performance. Do not use open flame as a heat source. Store chemicals between 55°F - 85°F in a dry atmosphere. Shelf life is 6 months, in original, unopened factory containers, under normal storage conditions of 55° to 85° F. Do not store in direct sunlight. Keep drums tightly closed when not in use. Cured product may be disposed of without restriction. Excess liquid material should be mixed together with sand or other absorbent material and allowed to cure, then disposed of in the normal manner.

Safe Handling of Liquid Components:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to “MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal” publication AX-119 published by the Center for the Polyurethanes Industry 1300 Wilson Blvd, Suite 800, Arlington, VA 22209.

Caution:

Polyurethane products manufactured or produced from this liquid system may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend on a broad range of factors which are controlled and influenced by the manufacturing and production process, by the mode of application or installation and by the function and usage of the particular product. ***Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions. These ratings are used solely to measure and describe the product's response to heat and flame under controlled laboratory conditions.*** Each person, firm or corporation engaged in the manufacture, production, application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures.

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