



Product: InstaFreeze®

Physical Data:

Appearance:	Clear viscous liquid
Odor:	No Odor
pH:	10.5 to 11.0
Freeze Point:	40° F
Specific Gravity:	1.3 - 1.5 (Water = 1.0)

Description & Function:

InstaFreeze® is a clear heavy liquid used to converting the soft-grouting effect of a SlurryPro® or SlurrySMART® membrane in low cohesion soils to a more persistent and stronger chemical grout, thereby increasing soil stability even in the most challenging of soils.

General Application Instructions:

InstaFreeze is a specialized synthetic grouting additive for use in the SlurryPro and SlurrySMART systems. InstaFreeze works in conjunction with the KB's Vinyl and 'SMART' Systems to create a polymeric grout virtually instantaneously within the sidewall of an excavation. In order for the InstaFreeze system to function properly the excavation must be filled with KB's SlurryPro System as InstaFreeze reacts with the SlurryPro or SlurrySMART membrane and the soil at the formation-excavation interface to yield a synthetic grouting effect thereby stabilizing virtually cohesionless soils.

The effects of InstaFreeze can be controlled for total solidification and grouting of the excavation or for spot solidification of a specific area within the excavation. Spot solidification can be very beneficial when obstructions are encountered or utilities are broken causing the loss of slurry. The general guidelines for adding InstaFreeze are; add the product directly to the slurry in the excavation until the desired effects are achieved. For spot addition, InstaFreeze should be applied directly to the excavation in 10 to 20 gallon or 40 to 85 liter increments with the digging tool placed in the excavation at the desired point of application. The tool should be slowly counter rotating and gently raised and lowered within the excavation adjacent to the desired point of treatment during the addition of the InstaFreeze. This will assist to delivering the InstaFreeze to the sidewall at the desired location.

As InstaFreeze does not contain reactive mineral colloids there will not be degradation to skin friction and rebar bonding values.

Whenever questions arise concerning proper slurry chemistry or proper product application please consult a KB engineer.

Special Operational Precautions and Instructions:

The unique performance characteristics and properties of a KB Excavation and Soil Stabilization Slurry as compared to bentonite allow for considerable simplification of the excavation operation. In order to obtain the full benefits of KB's synthetic slurries a few modifications should be made from the typical practices used with bentonite. Please consult KB International's "General Recommendations, Product Additions and Testing Procedures brochure." For larger or more complicated projects, please contact KB International for specific project planning and on-site support.

