



### 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 SlurryShield® 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 SlurryShield systems. InstaFreeze works in conjunction with the KB's Vinyl Systems to create a polymeric grout virtually instantaneously within the sidewall of an excavation. This grouting action can be accelerated by the immediate follow-up addition of InstaFreeze C-2. 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 SlurryShield 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 side-walls 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 15 to 50 gallon or 57 to 190 liter increments with the digging tool placed in the excavation at the desired point of application. The tool should be either counter rotating or slightly 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.

When excavating more challenging formations, KB International's System additives including InstaFreeze should be utilized in combination with a SlurryPro or SlurryShield system to increase slurry stabilization performance. The more challenging the formation type the more requirements for various SlurryPro Specialty Additives.

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

#### Special Operational Precautions and Instructions:

Due to the unique characteristics of a KB Earth Stabilization System as compared to bentonite, several key operational procedures should be modified from bentonite systems. These modifications will have a major impact on the overall effectiveness and successful use of KB International's Earth Stabilization Systems. For smaller projects, please consult KB International's "General Operating, Product Addition and Testing Procedures." For larger or more complicated projects, please contact



KB International for specific project planning.

**Packaging:**

InstaFreeze is available in: 20 liter / 5 gallon resealable plastic pails (60 lbs.)

**Availability:**

InstaFreeze is available from KB International's warehouses in these geographical areas:

<b>Charleston, SC USA</b>	<b>Seattle, WA USA</b>	<b>England</b>
<b>Cerritos, CA USA</b>	<b>San Francisco, CA USA</b>	<b>Italy</b>
<b>Hong Kong</b>		

**KB's SlurryPro® CDP™ System, including additives, and SlurryShield® Technology have been awarded four US Patents, No. 5,407,909, 5,663,123, 6,248,697 and 6,897,186 as well as various corresponding international patents. Additional patents are currently pending.**

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**For More Information:**

Additional information on all aspects of the SlurryPro CDP Vinyl System is available from KB International LLC on request. General Operating Procedures provide more detailed recommendations for the use of KB's System in bored piles, diaphragm walls, and other applications.

The information in this bulletin is given in good faith and is accurate to the best of our knowledge. Because we can neither anticipate nor control the different conditions under which this information and our products are used, we make no warranty of performance, expressed or implied. Typical properties given herein are not specifications. Our policy is to continually review product formulations and manufacturing to assure technical suitability and cost-effectiveness. Product characteristics are subject to change without notice. Users of our products are responsible for compliance with government regulations and patent laws. The SlurryPro System is covered by the following US Patent's, 5,407,909; 5,663,123; 6,248,697; and 6,897,186 and various corresponding International patents. Other U.S. and International patents pending. All users should discuss the product with an appropriate representative of KB International, LLC before utilizing the product.