



# EnhancIT<sup>®</sup> 200

### **Description & Function:**

EnhancIT 200 is a specialty additive for Enhanced SlurryPro, SlurrySMART and HydroCUT that functions to 1) increase the strength of the polymeric gel membrane and dramatically increase the chemical grouting attributes within the formation interface; 2) form a highly effective hydrophobic, or water repellent, protective coating on all exposed surfaces of clay, shale, mudstone and like soils insuring against their hydration; 3) rapidly remove fines from a slurry in an agglomerated, glued mass allowing for removal of these bound balls from the base of an excavation with each pass of the excavation tool, i.e. auger, bucket or grab.

### **General Application Instructions:**

EnhancIT 200 is typically added at the slurry mix tank or into the slurry line going from the slurry plant to the excavation through a KB in-line mixer. The dosage rates indicated below are suggested ranges for the referenced soil types. Actual dosages may vary depending on the specific excavation conditions and soil composition. The higher the water sensitivity of the formation or the more silts or super fines contained in the formation, the higher the dosage will be:

Formation Type	Average EnhancIT 200 Dosage			Typical Marsh Funnel Visc.
	lbs/yd <sup>3</sup>	lbs/1000 gals	kg/m <sup>3</sup>	sec/qt
<b>Silt, Clay, Shale and/or Mudstone</b>	0.008 - 0.084	0.04 - 0.42	0.005 - 0.05	55 - 85+
<b>Silt, Clay, in Sands</b>	0.017 - 0.084	0.08 - 0.42	0.01 - 0.05	55 - 120+

EnhancIT 200 may also be added in dilute form at a concentration of 1.0% or less (1 to 3 tablespoons of EnhancIT 200 to about 20 liters of water) and then added directly to the excavation. When applying diluted EnhancIT 200 solution to the excavation, it should be slowly added in half pint to one pint quantities to the stream of SlurryShield fluid entering the excavation from the supply line. This method of addition should only be used when suspended fines are noted to be climbing above a specific gravity of 1.035 or excavation enlargement due to light sloughing of the sidewalls is first noted. Typically, a dilute solution of SlurryPro MPA will also be being added in the same way in conjunction with the direct addition of dilute EnhancIT 200.

When excavating more challenging formations please contact KB International for pre-project slurry recommendations. If a problem is noted on a project, please contact KB for assistance in properly adjusting the slurry for the given conditions. KB has a full line of specialty additives which are capable of addressing even the most challenging soil conditions.

Always consult KB International's "**General Operating Recommendations**", Product Applications Sheets, and Testing Procedures prior to initiating excavation with a KB synthetic slurry. Please also have KB's "**Problem Solving Guide**" available on site for immediate reference.

# KB International, LLC

In 1991 KB International, LLC patented and introduced "Vinyl" polymer technology to the foundation industry. The holder of multiple international patents, KB continues to be dedicated to the advancement of polymer chemistry in excavation fluids. Pioneering the use of nano-chemistry for geotechnical applications, KB now offers its SMART polymer technology. With the introduction of SMART technology, KB has the most advanced, yet simple and dependable, line of slurry products in the industry.

KB now, more than ever, offers its customers **Simplicity, Affordability** and **Effectiveness**

KB's synthetic slurry technologies, including SlurrySMART, have been successfully used on some of the largest and most challenging diaphragm wall and piling projects on six continents. Over the past two decades KB's synthetic slurries have been used on major portions of the Boston Central Artery, New York 2nd Avenue Subway System, the Taipei MRT, the Singapore MRT, the Singapore Port expansion, the Vasco da Gamma Bridge in Portugal, the Channel Tunnel Rail Link in England, the KL Metro, the Bangkok Metro, the Taiwan High Speed Rail, and skyscraper and transportation systems foundations throughout Southeast Asia, Europe, America and Africa.



## Technology To Build On!®



**KB International LLC • 735 Broad Street, Suite 209 • Chattanooga, TN 37402**  
**Phone: +1 (423) 266-6964 • Fax: +1 (832) 201-9196 • email: info@kbtech.com • www.kbtech.**

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