

PRODUCT DATA SHEET

King[®] HS Cable

HIGH PERFORMANCE, SHRINKAGE-COMPENSATED, ANCHORING GROUT

PRODUCT DESCRIPTION

King[®] HS Cable is a neat, high performance, shrinkage-compensated, anchoring grout. It is an unsanded, Portland cement-based, expanding, shrinkage-compensated, anchoring grout containing silica fume and other carefully selected components. King[®] HS Cable resists water washout, making it ideal for anchoring cables, tendons or bolts in rock or soil media containing sulphates.

USES

- For most grouted anchor requirements including, cable bolting ,earth tie-backs for excavation or soil stabilization, grouting anchors in tunnel support systems, re-bar grouting and grouting soil or rock tendons for anchoring piles or foundation structures
- Infill of pipe piles
- Structural grout medium for injection-bored micropiles
- Grouting conventionnally bored micropiles
- Post-grouting of micropile installations

CHARACTERISTICS / ADVANTAGES

- Excellent resistance to sulphate attack
- Cementitious content meets the Type HS requirements of CSA A 3001
- Superior early strength gain, allowing early tensioning of anchors
- Resistant to water wash-out and dilution by water in wet ground conditions
- Excellent pumpability
- Reduced bleeding
- Very low permeability

PRODUCT INFORMATION

Packaging	King [®] HS Cable is packaged in 66 lb (30 kg) bags and polywrapped on wooden pallets. All KING products can be custom packaged to suit specific job requirements
Shelf Life	Unopened bags have a shelf life of 12 months.
Storage Conditions	Material should be stored in a dry, covered area, protected from the elements
Density	117 lb/ft ³ (1875 kg/m ³) ASTM C 109

TECHNICAL INFORMATION

Expansion	3-6% (volume unconfined)	ASTM C 940
Rapid Chloride Permeability	Chloride ion penetrability 1500 Coulombs	ASTM C 1202
Bleeding	Nil <u>Segregation</u> Nil	ASTM C 940

APPLICATION INFORMATION

Mixing Ratio	For a 66 lb (30 kg) bag, the recommended volume of water is 2.38 to 2.9 US gallons (9.0 to 11.0 L). For a 66 lb (30 kg) bag, a lower water:material ratio (2.38 US gallons, 9.0 L) should be used for pumpable consistencies while a higher water:material ratio (2.9 US gallons, 11.0 L) should be used for flowable consistencies.	
Coverage	66 lb (30 kg) bag contains approximately 0.7 ft ³ (0.02 m ³).	
Flowability	FLOW 20-30 seconds	ASTM C 939

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

USES

- Not recommended for areas subjected to extremely high vibrations.
- Adhere strictly to recommended water additions.
- Exceeding the recommended water:material ratio will result in reduced compressive strengths and inferior physical properties.
- Do not use mortar-style mixer to mix material.

AVAILABILITY/WARRANTY

OPTIMUM PERFORMANCE

Not recommended for areas subjected to extremely high vibrations. Adhere to recommended water additions. Exceeding the recommended water:material ratio will result in reduced compressive strengths and inferior physical properties.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using

any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

MIXING

Mix King® HS Cable to the consistency required for placement.

King® HS Cable's thixotropic properties make the grout appear thick and cohesive when it is in fact very pumpable. Introduce potable water into a high shear mixer and then add HS Cable while operating at medium speed. Increase mixer speed and continue mixing at high speed for 2 minutes. Mortar style mixers are not recommended for this purpose. Decrease mixer speed to low and continue mixing while placing the grout. The time between mixing and pumping of the batch should not exceed 15 minutes.

CLEANING OF TOOLS

Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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Product Data Sheet

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