



# KingSoil<sup>®</sup> AC200

**Synthetic polyelectrolyte liquid dispersing agent for drilling and tunneling.**

## DESCRIPTION

KingSoil AC200 is a high performance synthetic polyelectrolyte dispersing agent in liquid form specially designed to prevent clay coalescence during drilling and shield tunneling.

The unique formula of KingSoil AC200 makes it immediately generate a breaking effect due to electrostatic charges, this effect completely disperse the clay particles and thus facilitates the drilling process.

## APPLICATIONS

For drilling and shield tunneling in presence of high content of fine particles and clay in order to prevent the aggregation between the mineral and shield. For Injection on the excavation front or in pressure chamber to avoid clay clogging and lumps formation.

## ADVANTAGES

- Immediate dispersing effect.
- Assists in keeping the drilling tools clean by avoiding clay aggregation.
- Reduces the required cutter torque in drilling process.
- Does not affect by any temperature variation that may occur during drilling and tunneling process.

## TECHNICAL PROPERTIES

Colour:	Clear brown
Specific gravity:	1.3 ± 0.1
pH:	7.5 - 8.5
Solubility:	Soluble in water

## METHOD OF USE

### Dosage

Onsite trials should be conducted to determine the optimum dosage and concentration of KingSoil AC200 to meet the performance requirements by using the materials and conditions in actual use.

Dosage of KingSoil AC200 will vary depending on the characteristics and composition of the earth in, the type and profusion of water present as well as the intended application field.

In case of drilling applications, typical dosage ranges between 0.1% - 0.6% in water.

In case of TBM applications, typical dosage ranges between 5 - 11 kg per m<sup>3</sup> of conditioning earth.

### Application

In case of drilling application, KingSoil AC200 is applied in the drilling field after being mixed with water, it is recommended to bring the solution in contact with the earth for 6 - 8 hours.

In case of TBM application, KingSoil AC200 shall be added to the foaming solution line or to the water line.

## PACKAGING

KingSoil AC200 available in 50 kg plastic bags, 250 kg plastic drums and 1200 kg plastic tanks.



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## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative. KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's Qatar facility are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

® = Registered trademark of the KingKrete-Group in many countries.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

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Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.