

KingSoil[®] AC100

Soil stabilising and dust controlling acrylic based emulsion, suitable for all types of soil.

DESCRIPTION

KingSoil AC100 is a polymer based dispersion specifically designed to stabilise various types of soil, control dust and prevent soil erosion. When applied to any soil, KingSoil AC100 will penetrate deep into the soil infusing with the soil particles, and form a protective layer that is water resistant.

KingSoil AC100 imparts remarkable stabilization and durability properties to the soil, rendering it usable and suitable for pedestrian and vehicular traffic. It is economical, non-toxic and environmentally sound.

APPLICATIONS

The concentrated product is diluted with water and applied either by mechanical soil infusion or by spraying application, to create a sturdy and flexible topical sealant, or a rigid and stable sub-base terrain.

Typical application areas include:

- ☞ Dust suppression and emission control.
- ☞ Slope erosion control.
- ☞ Path and trail stabilizer.
- ☞ Quarry areas.
- ☞ Aircraft runway stabilizers.
- ☞ Military bases.
- ☞ Construction sites.

ADVANTAGES

- ☞ Environmentally friendly.
- ☞ Better road vision.
- ☞ Longer lasting roads.
- ☞ Low maintenance.
- ☞ Water resistant.
- ☞ Simple, easy and fast application.
- ☞ Long term cost effectiveness.
- ☞ Odour free.

METHOD OF USE

Dilution

The concentrated product must first be diluted with water before application. It is recommended to add KingSoil AC100 to the dilution water, and allow 10 minutes for proper diffusion of the blend.

The ratio of dilution depends on the application type, soil properties and intended usage. Refer to the supplied ratio table for recommended dilution ratios.

TECHNICAL PROPERTIES @ 25°C:

Colour:	White, colourless when cured
Brookfield viscosity: (spindle 3, 20 rpm)	10 - 30 poise
Density:	1.04 g/cm ³
Solid content:	58 - 62%
VOC:	< 20 g/ltr

Application

KingSoil AC100 should be applied to relatively dry soil, and only when there is no frost or rain forecast for 24 hours following the installation.

First dilute the concentrated product according to the specified ratios depending on the usage. It is recommended to add KingSoil AC100 to the dilution water and allow 10 minutes before applying for proper diffusion of the blend.

Excavate the soil down to the desired depth and infuse a first coat of the product. Apply the second coat when the first coat has fully cured and bound to the soil.

This typically takes 24 hours, but may take longer depending on prevalent weather conditions. It is recommended to apply the product using a pressurized system.

CLEANING

All equipment used must be clean and free from material residue.

PACKAGING

Liquid is available in 25 litre pails and 200 litre drums.

1000 litre IBC bulks can be easily loaded on the back of trucks and attached to hoses for direct application or can be poured into water trucks.

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TABLE OF DILUTION AND COVERAGE RATES FOR TOPICAL AND INFUSED APPLICATIONS

Intended Product Use	Dilution parts concentrate to water	Minimum Application Rate	Minimum Advised Infusion Depth
Dust suppressant - No traffic	1:9	0.5 ltr/m ²	5 mm
Dust suppressant - With traffic	1:6	1 ltr/m ²	20 mm
Unpaved trails and parking lot	1:3	5 ltr/m ²	150 mm
Helicopter pad and aircraft runway	1:3	7 ltr/m ²	200 mm
Paths	1:3	1.5 ltr/m ²	50 mm
Slope erosion control	1:6	1.5 ltr/m ²	50 mm
Unpaved military runway	1:3	10 ltr/m ²	250 mm
Heavy duty haul road	1:3	10 ltr/m ²	250 mm
Roadway - Light duty	1:3	7 ltr/m ²	200 mm

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 manufacturing facilities 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.

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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.

NOTE

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.