

# KingCoat<sup>®</sup> S

**Solvent based high performance aliphatic acrylate protective coating.**

## DESCRIPTION

KingCoat S is ready for use, single component, aliphatic acrylate coating for external and internal use over variety of concrete and masonry substrates. The system also includes an under coat of a silane-siloxane base which when used with KingCoat S will provide maximum protection against chloride ingress and carbon dioxide diffusion.

KingCoat S Primer is a penetrating hydrophobic silane-siloxane base which when applied will react with concrete and masonry producing a clear hydrophobic barrier that prevent the passage of water and hence protect exposed reinforced concrete structures from attack by chloride ions.

## APPLICATIONS

KingCoat S is an excellent protective and decorative fair face coating which can be used for many applications including:

- 🔧 Retaining walls.
- 🔧 Bridge abutments.
- 🔧 External concrete of storage tanks.
- 🔧 Multistory buildings and villas.
- 🔧 Pre-cast elements and concrete cladding.
- 🔧 Commercial and Industrial complexes.

## ADVANTAGES

- 🔧 Dual protective system, will form an Excellent Protective barrier against chloride ions, carbon dioxide and water borne.
- 🔧 Durable - highly resistant to UV and weathering.
- 🔧 Moisture vapor permeable, allows concrete to breath.
- 🔧 Available in a wide range of decorative colors.
- 🔧 Single component.
- 🔧 Color stable, with excellent hiding power.

## METHOD OF USE

### Surface Preparation

Surface preparation is very important to get a good quality finish and best performance. Any surface to be coated must be clean, sound and free from oil, grease, curing compound, or any contamination. Any contaminants should be removed by light grit blasting.

## TECHNICAL PROPERTIES

Colour:	White, grey, buff, brown & many other colors
Volume solids:	40 – 45%
Over coating time for KingCoat S Primer:	5 hrs. @ 25°C
Carbon dioxide diffusion resistance: Taywood method	> 250 m equivalent thick
Carbon dioxide diffusion resistance: Taywood method	> 500 mm equivalent thick
Touch dry time:	25 mins.
Application temperature:	5 - 50°C
Water vapour diffusion resistance:	SD 1.90 m @ 150 microns dft
Freeze/ thaw salt scaling (50 cycles)	Unaffected
Good quality concrete (control) ASTM C672	Severe scaling
Fire testing – Spread of flame: BS476, Part 7	Class 1
Fire testing – Propagation: Index I Sub index I1 Building Regulations rating BS647, Part 6	1.5 1.3 Class 0

*The results achieved are for the KingCoat S system applied at the minimum recommended application rate.*

Surfaces containing slight surface imperfection or blow- holes should be filled with a skim coat of cementitious repair mortar such as KingRep 5. Deep holes and defected areas should be repaired with cementitious products from KINGKRETE-Repair range.

### Application

The prime coat should spray or brush applied at the rate of 0.2 litres per square meter. It is recommended to apply two coats of KingCoat S at the stated rate of application. The first coat should be applied evenly by roller, brush or airless spray machine at a rate of 0.16 litres per square meter and allowed to dry. The second coat should be applied perpendicular to the first coat at the rate of 0.16 litres per square meter. KingCoat S needs to be thinned up to 5% by weight when using airless spray machine.

## CLEANING

# KingCoat<sup>®</sup> S

Tools and equipment can be cleaned with DPC-Solvent when wet. Dried KingCoat S should be removed using KINGKRETE-Solvent or mechanically.

## PACKAGING

KingCoat S is available in 18 litres drums.  
KingCoat S primer is available in 18 and 200 litres drums.

## COVERAGE

KingCoat S Primer: 0.2 litres/ m<sup>2</sup>/ coat.  
KingCoat S: 0.16 litres/ m<sup>2</sup>/ coat.

## 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.

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

## K KK-SAS-04.2-CT-S-R3-2601

### 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.