

# KingRep® WS

Rapid set cementitious mortar for plugging of water leaks.

## DESCRIPTION

KingRep WS is a fast set cementitious mortar for rapid patching and plugging of water leaks in concrete structures.

## APPLICATIONS

KingRep WS is used for patching water leaks in concrete structures such as; Tunnel lining, sewage plants, basements, water tanks, foundations and concrete segments.

## ADVANTAGES

- ☐ Fast setting.
- ☐ Easy to use. Single component, only needs addition of water.
- ☐ Excellent bond to concrete.
- ☐ Low exothermic, minimizing thermal cracks.
- ☐ Chloride free.

## METHOD OF USE

### Surface Preparation

All substrate should be clean and free loose material and contamination. All areas to be patched should be cut back to a minimum depth of 15 mm. Leaking cracks should be chased out to a depth of 20 mm.

### Mixing

Clean water should be added to a clean container. Add powder slowly and mix using a trowel or gloved hand until a still mix is obtained. Mixing ratio should be 1 part water to three parts powder.

Due to the rapid set nature of the product, mix only small amounts that can be used within the setting time. In very cold conditions, the use of warm water (room temperature) is advisable to accelerate strength development. Do not apply when frost is expected within 12 hours of application.

For hot temperature applications, the material should be stored in the shade and cooler water used.

## TECHNICAL PROPERTIES

Setting time*:	≈ 60 secs
Compressive strength: BS6319, Part 2 : 1983	16 MPa @ 24 hrs

*\*Set times will be extended at lower temperatures and reduced at higher temperatures.*

## APPLICATION

Apply the product to the leaking areas using trowel or gloved hand and hold until set. Apply at a minimum thickness of 15 mm. Cover the leaking area and surrounding areas.

### Notes:

- ☐ The minimum application thickness of KingRep WS is 15 mm.
- ☐ When the needed quantity is mixed, it must be used and held in the needed position until the initial set is reached (1 minute at 25°C).

## PACKAGING

KingRep WS is available in 1 and 10 kg bags.

## 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.



# KingRep<sup>®</sup> WS

## 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.

## WS-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.

