

# KingBlock<sup>®</sup> AC50

Lightweight block thin laying cementitious mortar with water resistance

## DESCRIPTION

KingBlock AC50 is a ready mixed thin laying cementitious mortar specially designed to fix autoclaved aerated concrete (AC) blocks internally and externally.

KingBlock AC50 is composed of blend of cement, well graded aggregate and special polymers that when mixed with water produced a thixotropic mortar with improved open time and weather resistance to be applied at thicknesses up to 5 mm.

Colour:

White or grey

## APPLICATIONS

- For permanent fixing of all types of lightweight blocks.
- Can be used internally and externally.
- Non sag, can be used for vertical and horizontal surfaces.

## ADVANTAGES

- Extended open - wet time.
- Water resistant, will not be affected in wet areas.
- Ready for use, just requires the addition of water.
- Non sag.
- High bond strength.
- Suitable for internal and external application.

## STANDARDS

KingBlock AC50 complies with ASTM C270, Type N Masonry Mortar.

## METHOD OF USE

### Blocks Condition

All used blocks must be checked to be clean and free from oil or any loose materials. It is recommended to wet the used blocks before the application of the adhesive, especially in hot and dry conditions.

### Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

6.9 - 7.1 litre (for each 25 kg bags) of clean water should be added to clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm).

# KingBlock<sup>®</sup> AC50

|   |                              |
|---|------------------------------|
| Fresh wet density (mixed):              | 1.85 ± 0.1 g/cm <sup>3</sup> |
| Open time:                              | ≥ 15 min @ 3 mm thickness    |
| Pot life:                               | 2 hr                         |
| Compressive strength: ASTM C109-109M-02 | ≥ 5.2 MPa                    |
| Water retention: ASTM C1506             | ≥ 90%                        |
| Air content: ASTM C91                   | ≤ 20%                        |

Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

## APPLICATION

- ☐ Spread to a uniform thickness of 3 - 5 mm.
- ☐ Place blocks firmly over the applied area.
- ☐ Do not apply large areas of adhesives that cannot be covered within the open wet time of the adhesive.

## CLEANING

All tools should be cleaned immediately after finishing by water. Hardened materials can be cleaned mechanically.

## PACKAGING

KingBlock AC50 is available in 25 kg bags.

## YIELD

Approximately 17.3 litres per 25 kg bag.

## 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.

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.

## HEALTH AND SAFETY



# KingBlock<sup>®</sup> AC50

---

**KK-SA-07.3-BK-AC50-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.

---

KingKrete South America  
[www.kingkrete.com](http://www.kingkrete.com)

**Disclaimer:** the IAS mark relates to certified management system and not to the product mentioned on this datasheet

