

# KingSeal<sup>®</sup> AG200

**One-part fire retardant water-based acrylic sealant.**

## DESCRIPTION

KingSeal AG200 is a one-part fire retardant water-based acrylic sealant. It exhibits good adhesion to a wide variety of common building substrates without the need for a primer. Paintable with emulsion paints three hours after application. Allow 12 hours before overpainting with gloss paints. When subject to flame KingSeal AG200 will intumesce (expand and char), thus blocking the passage of fire and smoke.

## APPLICATIONS

For the perimeter sealing of internal fire doors and screens and fire resisting movement joints in internal walls subject to low movement.

*Note:* it is not recommended for use in movement joints subject to high degrees of movement or joints in external situations.

## STANDARDS

- BS EN ISO11600 – F – 7.5P.
- BS476, Part 20 : 1987.
- Warres Report # 23282, 9th March 1995, Warres Report # 116997, 20th February 2001, Warres Report # 119344, 12th July 2001, Warres Report # 123325/A, 27th March 2002.

## METHOD OF USE

### Joint Preparation

The joint surfaces must be clean, dry and free from all contamination. The surfaces should be degreased using the appropriate King Cleaner.

### Joint Backing

Where applicable, appropriate joint filler e.g. Rockwool or closed cell polyethylene foam, should be used to provide the correct joint depth.

*(See chart for fire integrity and insulation achieved).*

### Application

KingSeal AG200 is supplied in cartridge and can be applied into the joint using Caulking Gun.

All joint preparation, priming and sealant application should be carried out in accordance with BS8000, Part 16, the British Standard for the sealing of joints in buildings using sealant.

## TECHNICAL PROPERTIES

Colour:	White & grey
Skimming time @ 20°C/ 65 % RH:	5 mins.
Application temperature:	5 - 40°C
Service temperature:	- 10 - 70°C
Cure rate:	Time to full cure is dependent on sealant depth, ambient temperature and humidity
Service life:	15 years +
Movement accommodation:	
Butt joints (movement in tension & compression)	10 %
Lap joints (movement in shear)	20 %

## CHEMICAL RESISTANCE

Fair resistance to most alkalis and dilute acids; poor resistance to hydrocarbon solvents.

## PACKAGING

KingSeal AG200 is available in 25 x 380 ml plastic cartridges. Polyethylene Nozzles are included in each box.

## SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per litre
10 x 10	10.00
15 x 10	6.66
15 x 20	3.33
30 x 12	2.77
35 x 12	2.38

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## JOINT SIZE SUITABILITY

### Joint Width

- 📏 Minimum 6 mm.
- 📏 Maximum 20 mm (single application).

### Joint Depth

- 📏 Minimum 10 mm on porous substrates.
- 📏 Minimum 10 mm on non-porous substrates.
- 📏 Maximum 20 mm.

**Width:** Depth ratio (within above min/max restrictions)

- 📏 In general, joints should be as narrow as possible to prevent passage of fire.

### Accessories

- 📏 Cleaner TB170: 1 liter tin (Toluene based – not suitable for use with plastics or delicate finishes).
- 📏 Cleaner AB. 160 : 1 liter tin (Alcohol based).

## 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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## AG200-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.