



# SupaSeal Fire AC

Rev 3, Dated: 16/05/2017

## Fire Rated Construction Sealant

### PRODUCT DESCRIPTION

**SupaSeal Fire AC** is a flexible, one component acrylic sealant, fire-rated up to 4 hours for sealing interior and vertical exterior joints up to 50mm wide subject to moderate movement. Ideal for Tilt-up construction / expansion joints, sealing fire door frames and service penetrations, Also used for dry wall partitioning as an acoustic sealant to 56 STC rating.

General information: - Seals at room temperature upon exposure to air with excellent adhesion to most common building materials generally without the use of a primer. Applied sealant remains permanently flexible, accommodating up to 30% total joint movement and will retain elastomeric properties under normal ambient conditions.

### ADVANTAGES

- Water based - can be applied to damp surfaces / wash-up with water
- Adhesion to most common building substrates
- Paintable – offers good adhesion with most common house paints.
- Durable - Excellent UV and mildew resistance when appropriate premium Exterior Acrylic finish applied.
- Primer is not usually required for most substrates. However, if doubtful, test substrates prior to sealant application.

### APPLICATIONS

**SupaSeal Fire AC** is suitable for:

- Sealing of plaster joints and/ junctions.
- For penetrations through plaster wall systems.
- Sealing electrical cable penetrations.
- Sealing pipe (steel or PVC) penetrations through concrete and/ plaster wall systems.
- Sealing expansion joints in concrete or precast panel systems (**Interior Only** – not designed for external use).

### TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUES	TEST METHOD
Fire rating:	Up to 4 hours – depending on design	AS 1530 – Part 4, 1990
FRL	-/240/180	
Acoustic rating:	56 STC in plasterboard partition	ASTM E413-87 for calc. ISO 140/III for method
Specific gravity:	1.60 - 1.62	
Solids by weight:	84 - 85%	
UV Resistance:	Excellent with appropriate premium exterior finish %	
Break strength:	approx. 0.6 MPa	ASTM D2370-8
Elongation at break:	250% - 300%	ASTM D2370-82
Cyclic movement capacity:	±15% joint movement	ASTM C-920-87
Peel strength - Concrete:	Excellent	ASTM C-920-87
Peel strength - Masonry:	Excellent	ASTM C-920-87
Service temperature:	-20°C to 90°C	
<b>Application Data</b>		
Open time	Approx. 20 mins @23°C	
Tooling time	Up to 10 minutes when temperature is below 25°C	

- Applied sealant as determined after 28 days and storage at 23°C / 50% relative

# SupaSeal Fire AC Technical Data Sheet

## APPLICATION INSTRUCTIONS

Cut nozzle at a sharp angle slightly wider than the desired bead. Extrude sealant with a gun and tool with a round spatula within 10 minutes to spread the sealant against the joint surfaces.

## SURFACE PREPARATION

Ensure surfaces are clean dry and free from dust. Use mechanical or solvent cleaning methods i.e. Methylated Spirits or similar to prepare surfaces. Ensure sealant has good contact with substrate surface. Tool off to a smooth finish if necessary within 10 minutes.

## LIMITATIONS

SupaSeal Fire AC is **not** recommended as a sealant for use in the following situations:

- Do not use for continuous immersion in water e.g. swimming pools, spa baths, etc.
- Do not use for expansion joint in exterior floors or decking.
- Sealant should not be used when both substrates are non-porous, i.e.. one surface should be porous to allow moisture to escape on drying.
- Sealant should not be applied in totally confined areas as very slow cure may result.
- Should not be applied when exposure to rain is likely within 24 hours of application.

## CURING PROPERTIES - @ 23°C / 50%RH

SupaSeal Fire AC can be tooled for up to 10 minutes after application, forms a skin within 20 minutes and cures to a depth of approximately 5mm in 7 days. Figures should be used as a guide only as rate of drying will depend on ambient conditions and the nature of the substrates

## STORAGE

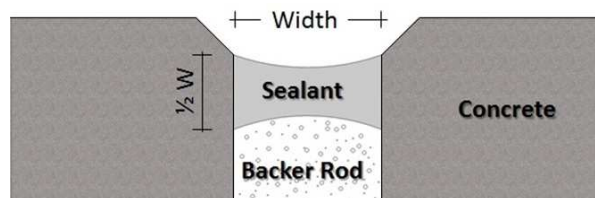
Provided sealant is stored in original unopened container and below 27°C, shelf life will exceed twelve months from the date of delivery

## Notice

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product (s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchasers' responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.

## JOINT DESIGN

- To allow the sealant to move effectively, the correct joint design requires that the sealant depth must be half of the width of the joint.
- A suitable closed cell must be used to ensure that the correct joint depth is achieved.



## HEALTH AND SAFETY

Provide adequate ventilation during application. SupaSeal Fire AC is non-toxic and nonhazardous. Prolonged skin contact may cause irritation to some individuals. Wash soiled clothing and skin with soap and water before sealant dries. Uncured sealant may irritate the eyes. In case of contact, flush eyes with water for 15 minutes. If irritation persists seek medical attention.

## PACKAGING

SupaSeal Fire AC is available in 940gm sausages

## COLOURS

Available in, Grey

**Admil SupaSeal Fire AC SDS is available upon request**