

APTC Proflex Fire AC

Fire rated acrylic sealant

AS1530:2014 & AS4072:1:2005(2016)

Description

APTC Proflex Fire AC is a single component fire rated intumescent acrylic sealant designed to prevent the spread of fire and smoke through walls and floors. Fire rated to 4 hours, the non sag formulation is suitable for both vertical and horizontal applications with excellent adhesion to plasterboard, masonry and Hebel.

APTC Proflex Fire AC is capable of $\pm 25\%$ joint movement and is acoustically rated for interior applications.

Uses

APTC Proflex Fire AC is suitable for use in the following areas:

- Construction joints—concrete walls and floors, plasterboard walls, masonry
- Sealing of service penetrations (pipes, cables, ducts)
- Perimeter sealing of interior door and window framing
- Interior applications requiring acoustic properties

Suitable substrates: concrete, masonry, plasterboard, metal, wood

Features & Benefits

Fire rated up to 4 hours	Excellent adhesion to plasterboard, masonry, Hebel
Low odour and non toxic	$\pm 25\%$ movement capabilities
One component, easy to apply	Acoustic rated
Smooth gunnability and finish	Paintable

Specifications and Technical Properties

APPEARANCE & CONSISTENCY	Non sag, smooth thixotropic paste
CURING SYSTEM	Moisture cure
TEMPERATURE RESISTANCE	-20°C to +90°C
VOC CONTENT	36g/litre
JOINT MOVEMENT CAPABILITY	$\pm 25\%$
CERTIFICATION	Jensen Hughes AS1530:2014 & AS4072:1:2005(2016)

Surface Preparation

All surfaces and substrates must be clean and sound. Any loose particles, grease, oils, silicones, curing compounds or laitance must be removed before application of the product.

All dust and loose particles should be vacuum cleaned before application begins.

- Porous substrates should be cleaned by grinding, saw cutting or blasting
- Non porous substrates should be cleaned by solvent or mechanical means. **Do not allow solvent to air dry—substrates must be wiped with a clean and dry cloth before solvent evaporates.**
- Concrete and other cement based substrates must be allowed to cure for a minimum of 28 days before application

Priming:

APTC Proflex Fire AC will generally provide excellent adhesion without the use of a primer on most non-porous substrates in good condition. Substrates in poor condition or those that are especially porous may require pre-treatment before application. Please consult with APTC Australia for recommendations of suitable primers.

Joint design:

Joints should be designed to accommodate both the sealants movement capability and expected joint movement. Refer to APTC Australia for technical advice on joint design.

For best performance the ratio of joint width to sealant depth should be 2:1.

Minimum joint width	6mm
Minimum joint depth	6mm
Maximum joint width	40mm

Backing rod:

Backing rod must be used to ensure correct sealant geometry and maximum contact with the substrate.

Place all backing materials before priming and application.

A minimum joint depth of 6mm must be left after installation of backing rod materials.

Pre-testing for adhesion

Where adhesion is critical to the success of the project, APTC Australia requires preliminary pre-testing of adhesion and compatibility prior to the commencement of application.

Pre-testing for adhesion is intended to eliminate potential field problems. Variability on the quality, type, cured properties and surface contaminants can affect adhesion. Pretesting will aid in determining the proper surface preparation method.



Head Office
18-22 Pacific Drive
Keysborough Victoria 3173

1300 394 239
aptcaust.com.au

Application

APTC Proflex Fire AC can be applied using a quality sausage applicator gun.

- Cut nozzle to the desired width and cut crimp on sausage. **Do not cut the tip of the nozzle smaller than 6mm wide.**
- Extrude the sealant firmly into the joint ensuring it completely fills all cavities and wets out both sides of the joint and the backing material.
- Tool sealant off in a concave shape before skinning to ensure a quality finish. Clean/wipe excess sealant using a suitable sealant tool.
- **Wet tooling techniques using water, solvents or a soapy solution should not be used to apply or finish APTC Proflex Fire AC.**
- Application temperature must always be between 5°C and 35°C.

Curing:

- **APTC Proflex Fire AC** must not be exposed to high humidity, moisture or water during the application and curing process.
- **APTC Proflex Fire AC** must be allowed to fully cure before subjecting to intermittent water exposure.

Painting:

APTC Proflex Fire AC can be painted after a minimum of 7 days.

Clean up

Fresh/wet sealant can be cleaned from tools and equipment with water.

Once cured, sealant can only be removed through mechanical means.

Packaging & Shelf Life

Packaging: 600ml foil sausages

Colours: Grey

Storage/shelf life: 12 months from production date in original unopened packaging. Store in a cool and dry place away from direct sunlight at temperatures between 5°C and 27°C. Protect from freezing.

Limitations

APTC Proflex Fire AC is not suitable for use in the following applications:

- Where the temperature is below 5°C or above 35°C.
- Where moisture, humidity or water is present during application or curing
- Constant immersion in water



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Limitations cont'd:

- Exposed external joint sealing applications
- Areas subject to heavy traffic
- Glazing applications
- Surfaces with a special or protective coating including mirrors, reflective glass, and those coated with Teflon, polyethylene, polypropylene
- The suitability of the product for each intended use must be determined by the purchaser prior to the application of the sealant.

Health & Safety

APTC Australia supports best practice in material handling; gloves, mask, safety goggles and protective clothing should be worn when handling and using this product. Ensure adequate ventilation when applying.

Product may cause an allergic skin reaction. Keep out of reach of children.

SKIN: If product comes into contact with the skin, remove contaminated clothing and wash skin thoroughly. If irritation occurs, seek medical advice. **SWALLOWED:** If swallowed do NOT induce vomiting. Give a glass of water and seek medical advice. **EYES:** In case of contact with eyes, hold eyes open and flood with clean water for at least 15 minutes. Seek medical advice. **INHALATION:** Remove from contaminated area and seek medical advice.

If poisoning occurs contact a doctor or Poisons Information Centre Ph 13 11 26 (Australia).

Disposal: Empty foils maybe disposed of in local landfill or according to local authority regulations. Do not dispose of down drains or local waterways.

Spills/leaks: Absorb with sand or soil. Collect and seal in properly labelled container and dispose of according to local, regional or national guidelines.

Fire: Non flammable

Safety data sheets (SDS) for this product are available on the APTC Australia website www.aptc Aust.com.au. Read the TDS and SDS carefully before using any product.

APTC Proflex Fire AC is fire test certified to AS1530:2014 & AS4072:1:2005(2016). Jensen Hughes fire test report available upon request.



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Disclaimer

The information and recommendations provided regarding the application and use of APTC Australia products are based on APTC Australia's current knowledge and experience, assuming proper storage, handling, and application according to our guidelines. However, due to variations in materials, substrates, and site conditions, we cannot guarantee any warranties related to merchantability or fitness for a particular purpose, nor assume any liability based on this information, written recommendations, or other advice. Users must assess the suitability of the products for their specific application and purpose. APTC Australia reserves the right to modify product properties at any time. Third-party proprietary rights must be respected. All orders are subject to our current terms of sale and delivery. For the most up-to-date product information, users should refer to the latest version of the local product data sheet, which can be provided upon request.

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