

RLA FIREPRO FR

Fire-Rated Acrylic Sealant



DESCRIPTION:

RLA FIREPRO FR Fire Rated Intumescent Sealant is a water-based acrylic sealant suitable for internal and external expansion joints and penetrations requiring a fire-resistant seal. RLA FIREPRO FR expands when exposed to fire to form an inorganic plug in joints and voids, assisting in preventing fire transmission across partitions in a building. RLA FIREPRO FR combines exceptional UV and water resistance with excellent flexibility, non-slump properties and ease of application, making it ideal for internal and external applications.

RECOMMENDED USE:

- Interior & exterior joints between concrete, plasterboard, blockwork, fibre cement, Hebel block, speed panel and brick walls.
- Building services' penetrations pipes, cable trays, conduits, and ducts.
- Adheres firmly to typical construction materials such as cement, concrete, brick, plasterboard, timber, steel, aluminium, glass, Hebel block and speed panels.

FEATURES AND BENEFITS:

- Premium quality, flexible construction sealant accommodating +20% joint movement.
- Up to 4-hour fire rating when tested by AS1530.4
- Low VOC green star project compliant sealant 8g/L
- Priming is not normally required.
- Excellent adhesion to most building materials.
- Easy application, tooling, and finishing.
- Good flexibility accommodating joint movement of ±20%.
- Excellent UV & weather resistance.
- Interior and exterior use.
- Non-hazardous, water-based, non-flammable & non-toxic.
- Paintable with water-based paints.
- Proudly manufactured in Australia.

SURFACE PREPARATION:

The common substrate should be clean and free of standing water, oil/grease, concrete spatter, dirt and dust, concrete release agents/bond breakers and other chemicals or debris. Where debris is present, it must be removed by chemical or mechanical means before application (consult the chemical manufacturer for the correct removal process). Failure to do so will risk adhesion failure at the sealant edge/interface.

PRIMING:

Where the substrate is highly porous, such as blockwork and concrete, surfaces should be primed before application to avoid excessive moisture loss and subsequent weakness in the sealant. Contact RLA Polymers for advice on a suitable acrylic sealer to apply overall high porosity substrates.

APPLICATION:

For best results, RLA FIREPRO FR should be applied at temperatures between 5°C and 35°C.

Cut the end of the sausage and place the sausage barrel gun nozzle over the sausage's cut end.

Place the sausage into the sausage barrel gun's housing and screw the nozzle head onto the housing of the barrel.

For bulk products (10lt pails), use a bulk barrel gun.

Install a suitably sized backing rod to fit the joint width to be sealed/caulked. Gun RLA FIREPRO FR joint space, facing the gun tip forward to ensure complete joint filling such that no voids are present, which would weaken the strength of the joint. Finish tooling the joint within 15 minutes and immediately wipe up excess material with a damp cloth.

Protect from water until suitably cured

JOINT DESIGN:

It is recommended that expansion joint sealants are installed using a 2:1 width-to-depth ratio to achieve maximum flexibility, except where joint widths are less than 10mm, where a 1:1 ratio will suffice.

Please refer to the table below for acceptable designs.

JOINT WIDTH mm	JOINT DEPTH mm
10	10
20	10
30	15
40	20
50	25

Joints must be designed such that adhesion of the sealant occurs only on two sides of the joint three-way bonding must be avoided.

Where the RLA FIREPRO FR bonds to three different surfaces, it becomes susceptible to tearing under the movement of the substrates.

COVERAGE:

One RLA FIREPRO FR 600ml sausage will give the following.

Approximate volume in linear meters.

JOINT IN mm	APPROX LINEAR METERS
10mmx10mm	6.0
20mmx10mm	3.0
25mmx15mm	1.6
30mmx15mm	1.5
40mmx15mm	1.0
40mmx20mm	0.8
50mmx20mm	0.6
50mmx25mm	0.5

CURE TIME:

Cure times can vary substantially and depend on weather conditions such as temperature and humidity, the porosity of the substrate, and the joint dimensions. Typically, a joint will form a firm skin in 2-3 hours and take up to seven days to fully cure (dependent on joint thickness and weather conditions). Joints exceeding 10-15mm in thickness/depth may take more than seven days to cure. Cold or very humid climates will extend cure time beyond seven days.

PAINTABILITY:

RLA FIREPRO FR may be painted with water-based acrylic paints. The painting contractor is responsible for ensuring the sealant has cured sufficiently to withstand the paint application process without sustaining damage. For optimum results, do not paint for at least 6 hours after application; for best results, the week after application. Paints with similar flexibility to RLA FIREPRO FR will result in the best appearance and performance over the longer term.

TECHNICAL DATA:

PRODUCT INFORMATION:	
Colour	Concrete Matt Grey & White
Specific Gravity	±1.53
Viscosity	800,00-1.2million cps TF/5/20°C
Skin formation, superficial curing @20°C & 70%RH	30-45 minutes
Complete Curing at 20°C and 70% @20mm wide-10mm deep	Seven days
Paintable	6-8 hours @70%
Total Joint Movement	±20%
Temperature Range	-10°C to +80°C
Application temperature	+5°C to +35°C
Maximum Joint Width	50mm x 25mm
Shelf Life @20°C.	12 months

NOTES & PRECAUTIONS:

RLA FIREPRO FR must be protected from water exposure for at least 24 hours after application to avoid washout and bleeding/running of the sealant.

Do not apply RLA FIREPRO FR temperatures below 5°C or higher than 35°C.

Store material out of direct sunlight at temperatures between 5°C and 35°C. Do not freeze.

LIMITATIONS:

- Trafficable and load-bearing joints.
- Sealing coated metal panels such as Colourbond™
- Use with absorbent materials such as stone, granite, and limestone as they may stain.
- Use in water-retaining structures or submersed conditions.
- Exposure to corrosive chemicals.

SAFETY & HANDLING:

- Do not breathe dust. Wear suitable respiratory protection.
- Use in well-ventilated areas.
- Avoid contact with skin and eyes.
- Wear eye protection and suitable gloves and clothing.
- Do not eat, drink, or smoke while using this product.
- Take off contaminated clothing and wash it before reuse.
- If on the skin, wash with plenty of soap and water.
- If in the eyes: rinse cautiously with water for several minutes.
- Remove contact lenses; if present, continue rinsing.
- If inhaled, remove them to fresh air and keep them at rest in a position comfortable for breathing.
- If any skin or eye irritation persists or you feel unwell, get medical attention.

The Safety Data Sheet is available upon request.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre.

Skin: Wash off with warm water and soap.

If swallowed, DO NOT induce vomiting. Give a glass of water.

For advice or if you feel unwell, contact a Poisons Information Centre: Australia ph. 131126, New Zealand ph. 0800 764 766 or a doctor at once.

If swallowed, do NOT induce vomiting.

IF SWALLOWED, immediately call the Poisons Information Centre or a doctor.

IF ON SKIN Remove immediately all contaminated clothing and wash skin with soap and water.

If skin irritation occurs, get medical advice/attention.

IF IN EYES Rinse carefully with water for several minutes.

If eye irritation persists, get medical advice/attention.

WARRANTY STATEMENT:

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specifications. We certify that this product is suitable for use when fully cured and will perform as described in our technical data sheet or other published materials.

RLA Polymers will replace the product free of charge when purchased from any legally verifiable source and where a product is proven to have been stored, handled, and install according to instructions published on our packaging and within the stated shelf life. The Installation of all materials must be carried out per the relevant Australian Standards.

Warranty doesn't apply if damage, loss, failure to follow instructions, or other circumstances are out of our control.

Sufficient time and access to investigate any complaint must be accorded to RLA Polymers.

The consumer is responsible for any expenses incurred in making a claim.

A claim form can be requested by:

PHONE: [1800 242 931](tel:1800242931)

EMAIL: info@rlapolymers.com.au

MAIL: [215 Colchester Road Kilsyth Victoria 3137 \(Attention Customer Service\)](mailto:215ColchesterRoadKilsythVictoria3137)

WEBSITE: www.rlapolymers.com.au

AUSTRALIAN CONSUMER LAW:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure. The benefits under our warranty are in addition to other rights and remedies available to the consumer under the law in relation to the goods and services to which the warranty relates.

DISCLAIMER:

All statements and technical information contained herein are based on tests we believe to be reliable, but the accuracy thereof is not guaranteed. Users assume all risk and liability resulting from the use of the product and must confirm the suitability thereof by their own tests. Conditions of Sale contain a limited warranty against manufacturing defects.