

# FIREPRO FR

## FIRE RATED ACRYLIC SEALANT



### **DESCRIPTION:**

**RLA FIREPRO FR** - Fire Rated Intumescent Sealant is a water-based acrylic sealant suitable expansion joints and penetrations requiring a fire-resistant seal. 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. Firepro FR combines exceptional UV and water resistance with outstanding flexibility, non-slump properties and ease of application, making it ideal for internal and external applications.

### **FEATURES AND BENEFITS:**

- Up to 4-hour fire rating when tested by AS1530.4
- Low VOC green star project compliant sealant 8g/L
- Primer-less adhesion for most applications
- Excellent adhesion to most building materials.
- Easy application, tooling, and finishing.
- Good flexibility accommodating joint movement of  $\pm 20\%$ .
- Excellent UV & weather resistance
- Interior and exterior use
- Water-based, non-flammable
- Paintable with water-based paints

### **RECOMMENDED USE:**

- Interior & exterior joints between substrates and construction elements including concrete, plasterboard, blockwork, fibre cement, Hebel block, speed panel and brick walls.
- Building services' penetrations pipes, cable trays, conduits, and ducts

### **SUBSTRATES:**

- Concrete
- Masonry
- Plasterboard
- Timber
- Steel
- Aluminium
- Glass
- Hebel block
- Speed Panel

**Important:** It is always suggested to conduct "Pre-Adhesion" tests on substrates to ensure an adequate bond is achieved. Contact RLA Technical Department for advice on suitability over surfaces not mentioned above

### **SURFACE PREPARATION:**

All surfaces must be clean, dry, and free from loose particles, dirt, dust, oils, grease, wax residues, rust, and any contaminants that may inhibit adhesion of the sealant. Where oils may be present, clean the surface using a non-oil based solvent cleaner. In most cases, no primer is required on most substrates. (Preliminary tests recommended).

### **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 primer/sealer to apply over high porosity substrates.

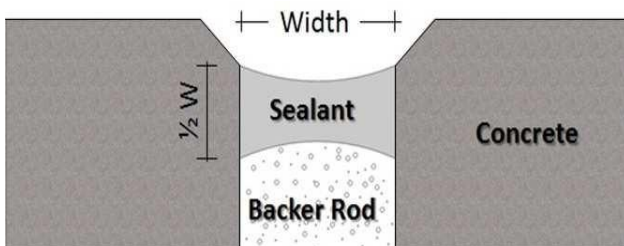
## **APPLICATION:**

- For best results, 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.
- Install a suitably sized backing rod to fit the joint width to be sealed/caulked
- Gun Firepro FR into the 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/rain 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 Firepro FR bonds to three different surfaces, it becomes susceptible to tearing under the movement of the substrates.

## **COVERAGE:**

Coverage from 1 x 600ml sausage

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:**

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, allow seven the week after application. Paints with similar flexibility to Firepro FR will result in the best appearance and performance over the longer term.

## **CLEAN UP:**

- Excess sealant can be removed immediately with a cloth dampened with mineral turpentine or suitable solvent
- Cured sealant can be removed by trimming with a sharp blade

## **PACKAGING:**

- 600ml Sausages

## **STORAGE:**

- Store in a cool, dry place away from direct sunlight
- Best stored in conditions under 35°C
- Do not let product freeze
- Shelf life is 12 months from date of manufacture when stored in accordance with above recommendations

## **LIMITATIONS:**

- Protect applied sealant from water exposure for at least 24 hours after application to avoid washout and bleeding/running of the sealant.
- Do not apply Firepro FR in temperatures below 5°C or higher than 35°C.
- Not suitable for trafficable and load-bearing joints.
- Not suitable for sealing coated metal panels such as Colourbond™
- Note suitable for use with absorbent materials such as stone, granite, and limestone as they may stain.
- Not suitable for use in water-retaining structures or submersed conditions
- Not suitable for use in areas exposed to corrosive chemicals.

## **HEALTH & SAFETY**

For information and advice on the safe handling, first aid, storage and disposal of chemical products, users must refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data

## **TECHNICAL DATA**

<b>PROPERTIES:</b>	
<b>Colour</b>	Concrete matt grey and white
<b>Packaging</b>	600ml sausages
<b>Shelf life</b>	12 months
<b>Specific Gravity</b>	± 1.56
<b>Viscosity</b>	800,000-1.2million cps TF/5/20°C
<b>Skin time @ 20°C &amp; 70%RH</b>	30-45 mins
<b>Full Cure @ 20°C &amp; 70%RH</b> (20mm wide, 20mm deep)	7 days
<b>Paintable</b>	6-8 hours
<b>Movement Capability</b>	± 20%
<b>Application Temperature</b>	+5°C to +35°C
<b>Operating Temperature</b>	-10°C to +80°C
<b>Maximum Joint Width</b>	50mm x 25mm

**WARRANTY STATEMENT:**

RLA Polymers guarantees this product against manufacturing defects and guarantees it to be manufactured to our published specification.

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 in accordance with 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

**EMAIL:** [info@rlapolymers.com.au](mailto:info@rlapolymers.com.au)

**MAIL:** 215 Colchester Road Kilsyth Victoria 3137  
(Attention Customer Service)

**WEBSITE:** [www.rlapolymers.com.au](http://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.

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