

MAKFIRE FR

TECHNICAL DATA SHEET

HIGH-PERFORMANCE FIRE RATED ACRYLIC SEALANT

Makfire FR is a single component, non-sag fire rated acrylic based sealant. It is a general-purpose fire rated sealant which conforms to AS1530.4/AS4072.1 and can be used for construction joints and sealing of service penetrations in plasterboard, masonry walls and concrete floors. **Makfire FR** is suitable for internal and external applications.

Makfire FR has been designed to provide a fire barrier for up to 4 hours. Makfire FR is used for sealing low movement interior joints in wood and plasterboard.

RECOMMENDED USES

- Sealing gaps around the perimeter of doors and interior window frames
- Fire rated sealant in concrete walls, floors and plasterboards
- Seal gaps around pipes, cables, ducts and services which permeate fire rated walls and floors
- Precast Panels
- Masonry
- Plasterboard
- Joint seal wall and penetrations
- For use on vertical and or horizontal joints
- Sealing interior material which require acoustic properties or STC rating
- Prevent the spread of fire through walls and floors
- Seal gaps between faced and cladding panels to many building materials
- New construction
- Rectification applications

FEATURES AND BENEFITS

- Internal/External applications
- Tested to AS1530.4/AS4072.1
- Flexibility joint movement +/- 20%
- Fire rating for gaps up to 40mm
- Low odour
- Non-toxic
- Paintable after fully cured
- Easy to apply and provides a smooth finish
- One part no mixing required
- Water clean up
- UV Stable
- 4 Hour Fire Rating
- Acoustic Rated
- Excellent adhesion to wood, metal, plasterboard, all masonry and hebel
- Water resistant after it has cured
- Australian Made and Australian Owned

APPLICATION INSTRUCTIONS SURFACE PREPARATION

Clean all surfaces of any material and contaminants such as oil, dust, grease, water, old sealants and any other coatings that are on the surface that requires sealing. Porous substrates should be cleaned by grinding, saw cutting or blast cleaning with sand and water. The dust, loose particles should be blown out of the joints with oil free compressed air or vacuum cleaned. Nonporous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents need to be wiped away with a clean dry cloth and not left to air dry.

APPLICATION

Makfire FR sealant should be applied by using a hand operated caulking gun. Cut the cartridge and screw on the supplied nozzle. Having previously cut this to give the required angle and bead size. Clip the end of the sausage and place the complete sausage in the barrel of the caulking gun, with pierced end located at the top of the nozzle. Screw top of nozzle and housing on barrel of gun. Using the trigger on the gun extrude sealant from the sausage. To stop the product flow, using the thumb, depress the catch plate mechanism located at the very rear of the gun, directly above the trigger. Install back-up of joint bond breaker material as specified.

Apply **Makfire FR** in a continuous operation using positive pressure adequate to properly fill and seal a cavity.

Add **Makfire FR** with sufficient pressure to spread the sealant against the back-up material and onto the joint surfaces. A tool with a concave profile is recommended to achieve the correct shape.

LIMITATIONS

Makfire FR is not suitable for the following applications:

- Surfaces that bleed oil.
- Areas of constant water immersion.
- Joint movement more than 20%.
- Assembling of structural glass.
- Will not adhere to some plastics such as polyethylene, polypropylene, and Teflon.
- Do not apply outdoors where rain is likely within 2 hours of application.

PACKAGING

Makfire FR is supplied in 600ml sausages. Each Box contains 15 sausages.

SHELF LIFE

Makfire FR has shelf life of 24 months if stored in the original sealed packaging in dry, low humid environments. If stored in temperatures between +5°C to +25°C.

CLEAN UP

Makfire FR should be removed from tools and equipment with clean water immediately after use. Cured material can only be removed mechanically.

HEALTH AND SAFETY INFORMATION

Makfire FR is a Combustible liquid. Causes skin irritation. Causes serious eye irritation.

Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use personal protective equipment as required. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

FIRST AID

If exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol resistant foam or normal protein foam for extinction.

Please refer to full Safety Data Sheet for this product, which is available from Makrete Building Solutions.

NOT CLASSIFIED AS HAZARDOUS.

EYE CONTACT: Wash out immediately with fresh running water.

SKIN CONTACT: Flush skin and hair with running water (and soap if available).

INHALATION: Remove from contaminated area.

INGESTION: If swallowed do NOT induce vomiting. Give water to rinse out mouth.

For any advice contact a poison information centre on 13 11 26 (Australia Wide).

TYPICAL PROPERTIES	
Colour	Grey (Acrylic Sealant)
Appearance	Non-sag smooth thixotropic paste
Stain and Colour Change	None
Chemical Resistance	Fair
Elongation @ Break	>50%
Tack Free Time	<20 mins
Specific Gravity	1.6g/mL
Extrudability	>300g/min.
Max. Joint Movement	+/- 20%
Recovery Elastic	>40%
Solids Content	Approx 80%
VOC g/Lt	36
Chemical Type	One component intumescent acrylic
Max. Joint Width	40mm
Service Temperature	-20°C to +90°C
Application Temperature	+5°C to +35°C
Tool Working Time	15 minutes at 25°C
STC Rating*	60
Curing Method	Moisture Curing
Curing Times	>2mm after 24 hours >6mm after 7 days

CONTACT & TECHNICAL SUPPORT
Makrete Pty Ltd
ABN: 14619437204
PO Box 50, Montmorency, VIC 3094
Ph: 1300 911 161
E: admin@makrete.com.au
W: www.makrete.com.au

Product	MAKFIRE FR
Issue Date	AUG 2022
Issue No:	1
Item Code	MAKS93
Size	600ml – Box of 15 Sausages

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time.

The TDS should be carefully read and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied.

Our responsibility for products sold is subject to our standard terms and conditions of sale. Makrete does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

The information and any recommendations relating to the application and end-use of all MAKRETE products are provided in good faith based on MAKRETE's knowledge and experience of the products. In applications, the differences in materials, and variances of substrates and actual site conditions can vary such that no warranty in respect of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be taken as inferred either from this information, or from any written recommendations, or from any other advice offered by MAKRETE. The proprietary rights of third parties must be observed. All orders are accepted subject to our sale terms and conditions.

It is recommended that all products be properly stored, handled and applied in accordance with the printed literature (TDS).

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.