

DUROFIRE™ A

FIRE RATED ACRYLIC SEALANT



DESCRIPTION

DUROFIRE™ A is a single component, nonsag, fire rated acrylic based gunnable sealant. A general purpose product for construction joints and the sealing of service penetrations in plasterboard, concrete floors and masonry wall constructions. DUROFIRE™ A is a gun grade acrylic based sealing compound specifically manufactured for sealing low movement interior joints (up to +/- 25%) in masonry and plasterboard to provide a fire barrier for periods up to 4 hours.

FEATURES

- Fire rating for gaps up to 40mm
- Designed for Australian conditions
- Good flexibility joint movement +/- 25%
- One part no mixing required
- Very easy to apply and gives a smooth finish
- Smooth gunnability and tool off finish
- Low odour
- Non-toxic
- Asbestos free
- Priming not normally required
- Water clean up
- Prevents the passage of hot gases
- Paintable after fully cured
- Water resistant after cure
- Excellent adhesion to metal, wood, plasterboard, all masonry, AAC and Hebel
- Acoustic capabilities with a 60 STC rating in plasterboard construction
- Available in three colours, white, grey and limestone

CLASSIFICATIONS/STANDARDS

Fire resistance when tested in accordance with AS1530.4-2014 and AS4072.1-2005

USE AREA

- Caulking internal concrete walls, concrete floors, and plasterboard walls
- For vertical and horizontal joints, interior applications which require acoustic properties or STC (Sound Transmission Class) rating
- Perimeter sealing of internal fire rated door and window systems
- For new construction and remedial applications.
- To prevent the spread of fire and smoke through walls and floors

TECHNICAL INFORMATION

Colour	Grey
Appearance	Non sag smooth thixotropic paste
Stain and Colour Change	None
Chemical Resistance	Fair
Max. Joint Movement	+/- 25%
VOC g/Lt	36
Packaging	600ml Sausage/ 20 per Carton
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
STC Rating*	60



SURFACE PREPARATION

Clean all surfaces by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants, curing and mould release agents and any protective coating. Porous substrates should be cleaned by grinding, saw cutting or blast cleaning (sand or water). Dust, loose particles, etc., should be blown out of joints with oil free compressed air or vacuum cleaned.

APPLICATION

Joint substrate preparation should be clean and free of standing water, oil/ grease, concrete spatter, dirt and dust, concrete release agents/ bondbreakers and other chemicals or debris. Where debris is present, these must be removed by mechanical means to a usable substrate prior to application. Failure to prepare the substrate will risk adhesion failure. Ensure DUROFIRE™ A is installed in ambient conditions between 5 and 35 degrees Celsius. Higher temperatures can cause bubbling of the sealant due to rapid moisture evaporation. Lower temperatures can extend the curing time. Install an approved backing rod for the application. Apply DUROFIRE™ A in a continuous operation with a DUROTECH™ Sausage Gun using positive pressure adequate to properly fill and seal a cavity. Tool DUROFIRE™ A 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.

SURFACE PREPARATION

DUROFIRE™ A should be applied to a minimum depth of 6mm, maximum width of 40mm. The ratio of joints width to sealant depth should be approximately 2:1. Joints width should not be less than 6mm. The joint must allow a sealant depth, after installation of backer rod or bond breaking material, of a minimum of 6mm. Lap shear joints should have a bead width equal to, or greater than twice the anticipated movement. A conservative design practice, which uses a portion of the sealant's movement capability as a safety factor is recommended. Sealants are subject to cohesive failure when the actual movement is greater than their rated capability.

COVERAGE

Linear Meters per 600ml sausage (Approx.)

Size	12x6	16x8	20x10	24x12
600ml	8.4	5.0	3.0	2.0

Calculation formula

$$\frac{W \times D \times L}{1000} = \text{Litres}$$

Litres / 0.6 = No. of 600ml sausages

W = Width (mm) D = Depth (mm) L = Length (metres)

PAINTABILITY

DUROFIRE™ A is paintable after fully cured with waterbased paints.

CURE RATE

The cure rate is dependent on the bead size (width & depth), and is greatly affected by temperature, humidity, and the presence of water and moisture on the substrate. Approximate cure rates at 23°C and 50% RH are as follows;

- 1mm – 1 day
- 3mm – 5 days

LIMITATIONS

DUROFIRE™ A is not recommended for water immersion, exposed external joint sealing or areas subject to heavy traffic.

DUROFIRE™ A should not be applied with wet tooling techniques. The use of solvents, water or detergent solution is not recommended.

DUROFIRE™ A should not be applied to surfaces with special protective or cosmetic coatings, without prior consultation with the manufacturer. Such surfaces include, but are not limited to, mirrors, reflective glass, or surfaces coated with Teflon, polyethylene or polypropylene.

DUROFIRE™ A can be affected by water before or during cure. The sealant should not be stored, applied or cured in areas where unusually high humidity or free water is present during the application or initial cure.

DUROFIRE™ A should be allowed to cure prior to subjecting to any intermittent water exposure. Do not apply to surfaces with temperature under 5°C, as cure will be compromised.

STORAGE & SHELF LIFE

All material shall be stored under cover in a manner that will prevent damage, preferably on pallets and protected from excessive heat and moisture. Do not freeze. DUROFIRE™ A has a shelf life of 12 months from date of manufacture when stored at or below 27°C.

SAFETY PRECAUTIONS

Refer to the Safety Data Sheet for additional information.

CLEAN UP

Equipment can be easily cleaned with water while wet.

PACKAGING

600ml foil sausages.

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