DUROTECH DUROSEAL DUROFIRE A

FIRE RATED ACRYLIC SEALANT

DUROTECH
Engineered Construction Chemicals
Made In Australia For Over 45 Years

DESCRIPTION

Durotech Duroseal Durofire A is a single component, non-sag, 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. Durotech Duroseal 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

- Installation of fire rated sealant in concrete walls and floors, and plasterboard walls.
- Sealing of gaps around pipes, cables, ducts and services, which penetrate, fire rated walls and floors.
- For vertical and horizontal joints, interior applications requiring acoustic properties or STC rating.
- Perimeter sealing of door and window framing interior.
- Sealing gaps between faced and cladding panels to various building materials.
- 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°C
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. Non-porous and plastic surfaces should be cleaned by solvent or mechanical means. Cleaning solvents should not be allowed to air dry or evaporate without being wiped with a clean, dry cloth.

APPLICATION

Durotech Duroseal Durofire A, when used as an adhesive or sealant, should be dispensed from either the cartridge or sausage sachet by means of a hand or air operated caulking gun designed for such application (available from Durotech) Cut the cartridge and screw on the supplied nozzle. Having previously cut this to give the required angle and bead size. Place the cartridge in a suitable Durotech extrusion gun and press the trigger. For sausages, a barrel gun is required, which is available from Durotech. Clip the end of the sausage and place complete sausage into the barrel of 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 product from the sausage. To stop 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 or joint bond breaker material as specified. Apply Durotech Duroseal Durofire A in a continuous operation using positive pressure adequate to properly fill and seal a cavity. Tool Durotech Duroseal 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

Durotech Duroseal 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)

PRIMING

Priming is not required unless surface to be bonded is in poor condition or exceptionally porous. Consult Durotech Technical department for advice on priming

MIXING

No mixing is required for Durotech Duroseal Durofire A. Simply use directly from sausage or cartridge.

PAINTABILITY

Durotech Duroseal Durofire A is paintable after fully cured

Important Notes

- Durotech Duroseal Durofire A is not recommended for water immersion, exposed external joint sealing or areas subject to heavy traffic.

- Durotech Duroseal Durofire A should not be applied with wet tooling techniques. The use of solvents, water or detergent solution is not recommended.

- Durotech Duroseal 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.

- Durotech Duroseal 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.

- Durotech Duroseal 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 retarded.

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

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. Durotech Duroseal 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

Durotech Duroseal Durofire A is available in 600ml sausages and 300ml cartridges.

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DUROTECH INDUSTRIES

JAS-ANZ

ISO 9001 Quality Certified System

ISO 14001 Environment Certified System

ISO 45001 Health and Safety Certified System