

# Donseal GA777-AC

General purpose, water based, acoustical and fire stopping acrylic sealant



## DESCRIPTION

Donseal GA777-AC is a one-part, water based, acoustical, and firestopping acrylic sealant that cures on exposure to the atmosphere to form a durable and flexible seal.

Donseal GA777-AC can be used as a fire-resistant sealant providing up to 3 hours fire resistance, preventing the passage of fire, smoke and toxic fumes when used in joints between wall and ceilings "Wall Masonry Linear Joints Seal" systems and backed by rock-wool with a minimum density of 150 kg/m<sup>3</sup>.

Donseal GA777-AC acoustical properties allows it to reduce sound transmission and improve STC ratings in many types of wall and partition systems by sealing the areas around cut-outs and at the perimeters of partitions.

Donseal GA777-AC provides enhanced adhesion and does not need a primer when applied to concrete, masonry, stone, marble and aluminum surfaces, making it an ideal solution for many interior and exterior sealing applications.

## APPLICATIONS

Donseal GA777-AC can be used as a firestopping sealant in Wall Masonry Linear Joints Seal systems. Donseal GA777-AC can also be used for sealing joints in the building industry in many applications such as:

- » Concrete, wood, anodized aluminum, blockwork, marble and natural stone. » Around windows and door frames.
- » Cladding panels.
- » Galvanized metal sheets.
- » Perimeter Joints.
- » Wall penetrations in gypsum or plaster.
- » Openings for electrical boxes, pipes, duct systems, and cutouts.

Also, it can be used as an adhesive to fix lightweight building materials (*An adhesion test is recommended before use*).

## TECHNICAL PROPERTIES:

|                                      |                               |
|--------------------------------------|-------------------------------|
| Colour:                              | Various                       |
| Specific gravity:                    | 1.65 ± 0.05                   |
| Skin over time:                      | 5 - 18 min @ 25°C             |
| Curing rate:                         | 2.5 - 3 mm/day @ 20°C         |
| Application temperature:             | 10 to 50°C                    |
| Movement accommodation:              | 10%                           |
| UV resistance:                       | Excellent                     |
| Sag resistance:                      | Excellent                     |
| Sound reduction index, Rw: ISO 717-1 | 49 dB                         |
| Elongation: ASTM D412                | > 200% @ 7 days               |
| Shore A hardness: ASTM D2240         | 40 ± 5 @ 7 days               |
| VOC:                                 | < 50 g/ltr (comply with LEED) |

## ADVANTAGES

- » Single component ready for use.
- » Reduces sound transmission.
- » 10% movement accommodation factor.
- » Easy to apply, tool, and clean.
- » Fire-rated, can be used as part of a fire-rated joint system\*.
- » Smoke and fume resistant\*.
- » Up to 3 hours fire resistance\*.
- » UV resistant.
- » Excellent adhesion to most building substrates.
- » Can be painted.
- » Available in a wide range of colours.
- » Low VOC.

\* According EN1366-4, depending on system.



# Donseal GA777-AC

## STANDARDS

Donseal GA777-AC complies with:

- » ASTM C834\*, Type OP, Grade 0.  
*\*Artificial Weathering and Low-Temperature Flexibility tests were performed with a UVA lamp in accordance with ASTM C1442.*
- » Tested according to BS EN ISO 140-3 and classified as per BS EN ISO 717-1 for acoustical properties.
- » Firestop tested for "Wall Masonry Linear Joints Seal" applications for up to 3 hours in accordance with BS EN 1366-4, BS EN 1364-1, BS EN 1363-1.

## METHOD OF USE

### JOINT SURFACE PREPARATION

Surfaces must be clean, dry and free from dust, grease, oils, old caulk, dirt and all other contaminants.

### JOINT BACKING

*For general purpose and acoustical applications:*

Where applicable, appropriate joint backing rod such as closed cell polyethylene foam should be used to provide the correct joint depth.

*For fire stopping systems:*

For Fire rated applications when used in Wall Masonry Linear Joints Seal systems, Donseal GA777-AC should be backed by rock-wool with a minimum density of 150 kg/m<sup>3</sup>.

The following joint design should be followed when used in joints between wall and ceilings "Wall Masonry Linear Joints Seal" systems:



- » Rockwool: minimum density of 150 kg/m<sup>3</sup>
- » Fire rated block wall: min width = 150 mm
- » Fire rated Slab/Beam

## APPLICATION

Donseal GA777-AC is supplied in cartridges and can be applied into the joint using a skeleton Gun.

Cut off cartridge top, cut the nozzle to the required size and attach the nozzle to the cartridge. Extrude the sealant firmly against the joint surfaces to ensure complete contact.

Tool the sealant into the joint to compact and achieve a good surface finish. Tool within 10 minutes after the sealant is applied.

## LIMITATIONS

- » Moisture on substrates will adversely affect adhesion.
- » Donseal GA777-AC should not be used in submerged applications.

## CLEANING

Uncured sealant can be removed using clean water, cured sealant should be removed mechanically.

## PACKAGING

Donseal GA777-AC is available in 280 ml cartridges and 20 kg buckets.

## SEALANT QUANTITY ESTIMATOR

| Joint size<br>mm | Meters per<br>280 ml cartridge |
|------------------|--------------------------------|
| 5 x 5            | 11.20                          |
| 10 x 5           | 5.60                           |
| 10 x 10          | 2.80                           |
| 20 x 10          | 1.40                           |
| 25 x 12          | 0.93                           |
| 20 x 20          | 0.70                           |
| 30 x 6*          | 1.55                           |

\* For fire rated applications.

# Donseal GA777-AC

## JOINT SIZE SUITABILITY

**For general purpose and acoustical applications:**

*Joint width:*

- » 3 mm minimum.
- » 30 mm maximum.

*Joint depth:*

- » Half the joint width.

**For fire stooping systems:**

- » Min depth = 6 mm.
- » Max width = 30 mm.

## STORAGE

Store in a dry and cool conditions away from humidity.

## SHELF LIFE

Donseal GA777-AC has a shelf life of 12 months from date of manufacture in original unopened package away from humidity.

If these conditions are exceeded, contact DCP Technical Department for advice.

## CAUTIONS

### HEALTH AND SAFETY

If Donseal GA777-AC comes into contact with eyes, flush with copious volumes of cold water and obtain medical attention.

For further information, refer to the Material Safety Data Sheet.

### FIRE

Donseal GA777-AC is nonflammable.



# Donseal GA777-AC

## MORE FROM DON CONSTRUCTION PRODUCTS

A wide range of construction chemical products are manufactured by DCP which include:

- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.



**Note:**

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.