



MULTI SEALANT & ADHESIVE

(GRAFT Multi Sealant & Adhesive is the tradename for GRAFT IPT Sealant, the item is identical).

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For fire rated sealing please refer to the Installation Instructions.

DESCRIPTION

GRAFT® Multi Sealant & Adhesive is a high performance, professional quality, one part ready to use sealant and adhesive. Based on an innovative new Inert Polymer Technology it is suitable for a wide variety of building trade applications including decorating, flooring, joinery, plumbing and tiling and out-performs conventional silicone, MSP, butyl and acrylic based products as a sealant and adhesive – the only sealant free from dangerous emissions.

Multi Sealant & Adhesive is designed for sealing joints, voids/irregular holes in walls, partitions and other structures, resulting in an airtight and watertight seal. Multi is a non-reactive environmentally friendly chemistry that ensures compatibility with most building materials and has the unique property of moving dynamically to accommodate the natural or unexpected movements of sealed/bonded joints within a building, for long-lasting performance.

Multi Sealant & Adhesive eliminates the selection choices that need to be made with conventional sealants and adhesives. Choosing a product for a building application can be confusing especially as there are a wide number of products available and within those products a variety of grades, with variations in properties to suit the substrate or application. Multi Sealant & Adhesive overcomes this by offering the tradesman one solution for all internal building applications.

As a part of our policy of on-going product development and testing, we reserve the right to modify, alter or change product specifications without giving notice. All information contained in this document is given in good faith and is provided for guidance only. Any drawings provided are for illustrative purposes only. As Polyseam has no control over the methods or competence of installation and of prevailing site conditions, no warranties, expressed or implied, are intended to be given as to the actual performance of the product mentioned or referred to herein and no liability whatsoever will be accepted for any loss, damage or injury arising from the use of the information given.



APPLICATION

Multi Sealant & Adhesive remains permanently flexible.

Suitable applications include:

- Internal sealing around doors and windows
- Sealing where air quality for health is important
- Sanitary applications including showers
- Sealing of gaps around fitted furniture and work-tops
- Sealing around flooring
- Fire resistant sealing
- Radon resistant sealing
- Decorating caulking and sealing
- Air and sound sealing

Multi can be used as an adhesive and has excellent initial grab quickly developing a high bond strength resulting in a permanent fixing. It is easy and economical to apply and is ideal for general construction. Multi bonds to most building materials.

Substrates include:

- Brick, concrete, stone, slate, ceramic, marble, granite
- Timber, plywood, block board, chipboard, fibre-board
- uPVC plastic trims and polycarbonate
- Insulating board
- Expanded polystyrene
- Plasterboard and plaster
- Metals, aluminium, steel, lead, copper and alloys
- Painted surfaces



MULTI SEALANT & ADHESIVE

FEATURES

- Primerless adhesion
- Excellent adhesion to most common substrates
- Dynamic for low and high modulus applications
- 3D joint movement capability minimum 25%
- Can be used for all applications internally
- Fire rated up to 4 hours both integrity and insulation
- Resistant against radon (radioactive particles)
- Excellent slump resistance
- Only technology available that is VOC free
- Resistant to mould and mildew
- Low dirt pick up
- Non staining on susceptible surfaces
- Easy to apply and tool off
- Excess can be wiped before curing with a damp cloth
- Paintable
- Low shrinkage
- Does not yellow

LIMITATIONS

- Where metals are not compatible with water contact, they should be primed prior to any sealant application.
- The sealant is soluble in water in wet/uncured state and cannot be used submerged or in rain. Applied sealant must not be sprayed with water or other fluids before skin formation (<30 min).
- The sealant should not be used outdoors due to the design of the curing process technology.
- Very narrow seals cure faster than normal. There is a special version of Multi that cures more slowly.
- Recommended for use in joints up to 20mm wide, larger joints widths can be accommodated.

INSTRUCTIONS

All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.

1. In order to obtain maximum performance as a sealant the depth of the joint should be at least half the width and not less than 6mm. The use of backing material is strongly recommended e.g. polyethylene backer rod or mineral wool.
2. Cut nozzle to the desired angle with a diameter equal to the joint width.
3. Use a caulking gun and gun firmly into the joint to give a good solid fill. Strike the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have medium shrinkage during cure and for a flush finish it is recommended to leave the sealant proud.
4. The sealant can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application. Multi Sealant & Adhesive Tooling is designed for the optimum finish and is recommended instead of soap and water as it forms a film between the stick and the sealant. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly properties.
5. Surplus uncured material can be easily removed using a damp cloth as the uncured sealant is completely soluble in water. Cured material should be mechanically removed.
6. The sealant is paintable with both alkyd resin and water based paints once it's cured.



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USAGE

Usage for a standard 300 ml cartridge:

Joint size (mm)	6x6	9x6	12x6	25x10	7x7 fillet	10x10 fillet
Linear m./ Cartridge	8,63	5,5	4,1	1,2	12,0	6,0

SOUND INSULATION

Description	Sound reduction
Single sided seal ≥ 12mm depth	Rw 62 dB
Double sided seal ≥ 12mm depth	> Rw 62 dB

Multi Sealant & Adhesive has been tested at EXOVA BM Trada (UKAS accredited); according to EN ISO 10140-2:2010. Usage of any backing material is optional, due to the tests being conducted with sealant only.

EMISSION DATA (INDOOR AIR QUALITY)

Compound	Emission rate after 3 days	Emission rate after 4 weeks
TVOC	7.7 µg/m ³	n.d. (< 5 µg/m ³)
TSVOC	n.d. (< 5 µg/m ³)	n.d. (< 5 µg/m ³)
VOC w/o NIK	n.d. (< 5 µg/m ³)	n.d. (< 5 µg/m ³)
R Value	n.d. (< 1)	n.d. (< 1)
Formaldehyde	n.d. (< 3 µg/m ³)	n.d. (< 3 µg/m ³)
Acetaldehyde	n.d. (< 3 µg/m ³)	n.d. (< 3 µg/m ³)
Sum for+ace	n.d. (< 0.002 ppm)	n.d. (< 0.002 ppm)
Carcinogenic	n.d. (< 1 µg/m ³)	n.d. (< 1 µg/m ³)

n.d. means not detected

Multi Sealant & Adhesive complies with the requirements of GEV and the results correspond to the EMICODE emission class EC 1^{PLUS} which is the best possible environmental and indoor hygiene health protection mark. Multi is the only technology available with no dangerous emissions during usage and curing. Meets the requirements for **BREEAM** rated building projects. Tested by Eurofins Product Testing.

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CERTIFICATES

- Emission test complying with EMICODE EC 1^{PLUS}
- Acoustic report according to ISO 10140-2:2010.
- European Technical Assessment 20/0476 & 20/0477
- Radon tested.
- Air permeability report according to EN 1026:2016
- EN 15651-1: F-INT 25LM
- EN 15651-3: XS1

HEALTH & SAFETY

No health hazard. See safety data sheet on GRAFT's website or upon request.



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TECHNICAL DATA

Condition:	Ready to use thixotropic paste.
Specific gravity:	1,54 g/cm ³ .
Colours:	A range of colours are available. Standard colours are white, light grey, grey, anthracite, black and brown.
Packaging:	200ml flexitube, 300ml and 380ml cartridge, 300ml and 600ml foil.
Flashpoint:	None.
Skin time:	30 minutes maximum.
Tack free time:	60 minutes maximum.
Rate of cure:	10% at 24 hours.
Solids content:	> 80%
VOC:	0 g/l.
Durability w/ageing:	Type X (UV / water) (pass).
Chemical resistance:	Test passed (resistant).
Salt water immersion:	Test passed (resistant).
Microbiologic growth:	0 (no growth).
Hardness:	Shore A 47.
Tensile properties:	3,79 MPa (379 N/mm ²).
Tensile elongation:	270%
3D-tensile properties:	0,24 MPa (24 N/cm ²).
3D-tensile elongation:	106%
Tear properties:	50%
Compression resistance:	434 N / 1569 MPa.
Movement:	25%
Resistance to flow:	< 0,5 mm.
Shrinkage:	15% volume single sided
Radon resistance:	1.5mm thickness Multi gives Z = 2.9 - 108 s/m.
Reaction to fire:	Classification D-s2, d0.
Fire resistance:	Up to class EI 240.
Thermal Conductivity:	0.845 W/mK (+/- 3%) at 20mm depth (to EN 12667).

Shelf life:	Up to 12 months when stored in unopened cartridges under cool dry conditions and 6 months in opened and resealed cartridges. Avoid temperatures above 35°C & below 5°C.
Frost:	Uncured sealant should not be frozen.
Application Temp:	+5 °C to +35 °C.
Service Temp:	-40 °C to +75 °C.
Test laboratories:	SP Sveriges Provningsverk, SE Intertek Chemicals & Phar., GB BM Trada, GB Warringtonfire, GB Eurofins Product Testing, DK .

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