



BUILDING SILICONE

TABLE OF CONTENTS

Description.....	1
Features.....	1
Sound Insulation.....	1
Application Instructions.....	1
Application Chart.....	2-3
Limitations.....	4
Packaging.....	4
Health and Safety.....	4
Technical data.....	5

DESCRIPTION

GRAFT® BUILDING SILICONE is a neutral curing, low modulus silicone sealant with excellent adhesion and long shelf life for perimeter sealing and glazing and sanitary applications.

GRAFT® BUILDING SILICONE cures at room temperature under the action of atmospheric moisture to give a permanently flexible silicone rubber.

FEATURES

GRAFT® BUILDING SILICONE features are:-

- suitable for use in sanitary areas
- long shelf life
- primerless adhesion to most materials
- non-corrosive to metals
- suitable for alkaline substrates like concrete mortar, fibrous cement
- almost odorless
- non-sag
- ready gunnability at low +5 °C and high +40 °C temperatures
- rapid crosslinking: quickly becomes tack-free
- flexible at low (-40 °C) and high temperatures (+150 °C)
- excellent weatherability



SOUND INSULATION

GRAFT® BUILDING SILICONE has been tested at 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.

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

APPLICATION INSTRUCTIONS

The substrate areas that will be in contact with the sealant must be clean, dry and free of all loose material such as dust, dirt, rust, oil and other contaminants. Non-porous substrates should be cleaned with a solvent and a clean, lint-free, cotton cloth. Remove residual solvent before it evaporates with a fresh clean, dry cloth.

Remark: 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.



BUILDING SILICONE

APPLICATION CHART

A = EXCELLENT B = GOOD C = FAIR

INTERNAL GENERAL AREAS	RATE
MASONRY	
Cementitious fibre	A
Concrete / Cellular concrete / Brick work	A
Plaster	A
WOOD	
Fibre board / veneer	B
Solid and untreated wood	B
GLASS / CERAMICS	
Ceramics / Porcelain	A
Glass	A
Layered glass	A
Reflective glass	A
METALS	
Copper and copper alloys	B
Iron	B
Lead	B
Stainless Steel	B
Untreated and anodised aluminium	B
Zinc	B
SYNTHETIC MATERIALS	
Acrylic / Fibreglass	A
PMMA (Plexiglass / Perspex)	B
Polycarbonate	B
Polyester	B
PVC and PVCu	A
OTHERS	
Acoustic sealing	A
Dry lining	B
Ductwork	B
Expansion joints	A
Frame fixing	B
Internal frame sealing	B
Low emission zones	B
Mirror Fixing	C
Plumbing	B
Polystyrene	B
Skirting & architraves	C
Stonework	B
Woodwork	B

BATHROOMS/SANITARY/PUBLIC BAT HOUSES	RATE
MASONRY	
Cementitious fibre	B
Concrete / Cellular concrete / Brick work	B
Plaster	B
GLASS / CERAMICS	
Ceramics / Porcelain	B
Glass	B
Layered glass	B
Reflective glass	B
METALS	
Copper and copper alloys	B
Stainless Steel	B
Untreated and anodised aluminium	B
Zinc	B
SYNTHETIC MATERIALS	
Acrylic / Fibreglass	B
PMMA (Plexiglass / Perspex)	B
Polycarbonate	B
Polyester	B
PVC and PVCu	B
OTHERS	
Acoustic sealing	B
Dry lining	B
Ductwork	B
Expansion joints	A
Frame fixing	B
Internal frame sealing	B
Low emission zones	B
Mirror fixing	C
Plumbing	B
Polyseurene	B
Skirting & architraves	C
Stonework	B
Woodwork	B

Remark: 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.



BUILDING SILICONE

KITCHENS	RATE
Acoustic sealing	B
Concrete / Cellular concrete / Brick work	B
Dry Lining	B
Ductwork	B
Fibre board / veneer	B
Glass	B
Internal frame sealing	B
Plumbing	B
Skirting & architraves	C
Solid and untreated wood	B
Stainless steel	B
Untreated and anodised aluminum	B
Woodwork	B

EXTERNAL FACADES	RATE
MASONRY	
Concrete / Cellular concrete / Brick work	A
WOOD	
Fibre board / veneer	B
Solid and untreated wood	B
GLASS / CERAMICS	
Glass	A
Layered glass	A
Reflective glass	A
METALS	
Copper and copper alloys	B
Iron	B
Lead	B
Stainless steel	B
Untreated and anodised aluminum	B
Zinc	B
SYNTHETIC MATERIALS	
Acrylic / Fibreglass	A
PMMA (Plexiglass / Perspex)	B
Polycarbonate	B
PVC and PVCu	A
OTHERS	
Expansion joints	A
Leadwork	A
Plumbing	B
Polystyrene	B
Stonework	B

ROOFS	RATE
Bitumen	C
Copper and copper alloys	A
Expansion joints	A
Glass	A
Guttering	A
Layered glass	A
Lead	A
Plumbing	B
PMMA (plexiglass / perspex)	B
Polycarbonate	B
Polystyrene	B
Reflective glass	A
Stainless steel	B
Stonework	B
Untreated and anodised aluminum	B
Woodwork	B
Zinc	A

Due to the diversity of applications and substrates Polyseam cannot accept responsibility for results obtained using this chart. It is suggested a preliminary test be carried out first to check bond and seal.

Remark: 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.



BUILDING SILICONE

LIMITATIONS

is the responsibility of the user to test the compatibility of the sealant with the adjoining materials. Incompatible substances like coating plasticizer containing rubbers (EPDM, butyl and neoprene) can lead to discoloration or other impairments like loss of adhesion of the sealant.

Materials in direct contact with the applied sealant like cleaning agents and materials in indirect contact like gaseous emissions can damage the sealant in its function or change its appearance. Because of the multitude of these materials, Graft cannot make a general statement to the compatibility of materials with the sealant. In case of doubt the user should conduct appropriate preliminary tests.

GRAFT® BUILDING SILICONE must not be used:-

- as a secondary sealant in insulating glass units.
- for structural glazing bonding.
- for use on natural stones, such as marble, granite, quartzite, as it can cause staining.
- recommended for sealing of aquaria or for the longer-term use under water.
- for food contact applications.
- for use as mirror adhesive.

When using GRAFT® BUILDING SILICONE in permanently wet areas where the joint is strongly or permanently exposed to water, e.g. in swimming pools or public sanitary facilities, please contact our technical services.

The time until complete curing may be extended at lower temperature, lower humidity, and increasing film thickness or by low volume of air exchange.

PACKAGING

SIZE	PACK	COLOUR	UNITS PER BOX
300ML	CARTRIDGE	WHITE	12
300ML	CARTRIDGE	CLEAR	12

HEALTH AND SAFETY

During vulcanization ethanol is released. These vapors should not be inhaled for long periods or in high concentration. Hence, good ventilation of the work place is necessary. Should unvulcanized RTV-1 silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water as irritation will otherwise be caused. Cured silicone rubber, however, can be handled without any risk to health.

Keep away from children. Comprehensive instructions are given in the corresponding Material Safety Data Sheets

Remark: 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.



BUILDING SILICONE

THECNICAL DATA

PRODUCT DATA	INSPECTION METHOD	VLAUE
Typical general characteristics		
Unvulcanized paste		
Density at 20 °C	DIN 51757	1,01 g/cm ³
Consistency	ISO 7390	non-sag
Extrusion rate at 23°C		300 ml/min
Skin forming time at 23°C / 50 % r.h.		approx. 35 min
Curing at 23 °C / 50 % RLF		approx. 2 mm/day
Vulcanized rubber After 4 weeks' storage at 23°C / 50 % r.h.		
Tensile strength	ISO 8339	0,70 N/mm ²
Elongation at break	ISO 8339	300%
Modulus at 100 % elongation	ISO 8339	0,37 N/mm ²
Hardness Shore A	ISO 868	24
Movement capability	ISO 11600	25%
Tear strength	ISO 34, method C	4,5 N/mm

These figures are only intended as a guide and should not be used in preparing specifications.

Remark: 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.