

SEALING FACADE JOINTS

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UP TO IT.

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THE ROLE OF THE FACADE SEALANT.

A facade sealant is designed to seal joints between facade elements. Expansion joints around windows and between concrete or facade panels are the most common applications.

The purpose of a sealant is to prevent humidity, air and dirt from getting inside the structure of the building, as this can result in damage and additional costs. Several elements of a building can move due to thermal expansion, wind, etc. Therefore, it is crucial that a facade joint meets the specific requirements of the application.

GENERAL APPLICATION REQUIREMENTS

- E2/AS1 NZ regulations having a movement capability of +25%.
- Superior adhesion properties to materials used in facades like concrete, aluminium panels and different window profiles. Depending on the type of application, different materials are used.
- High movement capability between the construction elements.
- Excellent weatherability: the sealant should offer high wind, rain and UV resistance. This is to prevent mechanical and aesthetic failures such as adhesion loss and discolouration.
- Excellent workability: no sagging, easy to extrude and short cut-off string. Sealants that are easy to tool will result in faster and better application.



Product used: Gorilla MS Sealant



APPLICATION SITES



1

CONNECTION JOINTS & WINDOW PERIMETER SEALING

This application refers to the joint between the window frame and the facade (such as brickwork or concrete). For these projects, special attention should be given to the adhesion to different window frame materials. There is a growing complexity of materials used in window assembly, including wood, different types of PVC and coated aluminium. This needs to be considered when selecting the right sealing solution. Additionally, paintability of the sealant will in some cases be an advantage.



2

SEALING BETWEEN CONCRETE ELEMENTS, PRECAST PANELS & BRICKWORK

Typically, these applications include the use of large-scale panels with exposure to high temperature fluctuations. That is why a sealant with flawless adhesion to porous substrates and a high elasticity is critical.

For less firm substrates such as plaster and some external wall insulation systems, it is important to prevent stress on the sealants and surface. A softer/low E-modulus sealant will prevent high cohesive tension upon the sealants and surface in the event of elongation or contraction. Good surface preparation is crucial to the success of a project.



3

SEALING BETWEEN FACADE PANELS/ CLADDING

The sealing of aluminium and composite panels is a common application in industrial construction. Due to the types of materials involved, expansion and movement will occur. Allowing for joint movement and adhesion to critical paints and coatings is therefore very important. Other points of attention are toolability, high colour stability and excellent weatherability.

CHOOSING THE RIGHT TECHNOLOGY PER APPLICATION.



Depending on the application, Soudal offers a range of high-quality solutions in silicone, hybrid and PU technologies

1

CONNECTION JOINTS & WINDOW PERIMETER SEALING

Neutral silicones and hybrid sealants are the most suitable for this application, as they both offer very good weatherability. Hybrids offer the widest adhesion spectrum, are paintable and can be applied on slightly wet substrates.

2

SEALING BETWEEN CONCRETE ELEMENTS/ PRECAST PANELS/ BRICKWORK

Polyurethane sealants or hybrid sealants are the most suitable for this application. Polyurethane sealants have an excellent adhesion to porous substrates and tend to be more forgiving in less-than-optimal conditions. Hybrids offer better UV resistance and non-sag properties in wider joints.

3

SEALING BETWEEN FAÇADE PANELS/ CLADDING

Both silicones and hybrids are often used for this application, due to their combination of excellent adhesion and weatherability.

PRODUCTS

Low Modulus Facade Sealant

SOUDAL SOUDAFLEX FACADE 20LM PU SEALANT

Soudal Soudaflex Facade 20LM PU Elastic Joint Sealant is a high-quality, elastic, one-component sealant for use on all building joints with high movement. Based on polyurethane. Ideal for structural sealing of connection joints, expansion joints and joints with large movement.

- Permanently elastic after curing
- Very good adhesion to many materials
- Excellent resistance to UV radiation
- Low modulus
- Connection joints between windows, doorframes and walls
- Expansion joints between many different construction materials
- Joints with large movement

Colour	Size	Code
Grey	600ml	20173



General Use & Facade Sealant

GORILLA 940FC PU ADHESIVE SEALANT

Gorilla 940FC PU Sealant is a high-quality, polyurethane, elastic, single-component adhesive for structural bonding of body elements. Ideal for structural bonding in vibrating and constructions, sealing in the building industry and automotive bonding applications.

- Very easy to apply
- Permanently elastic after curing
- Excellent adhesion
- High resistance to many chemicals
- AgriQuality approved for flooring joints

Colour	Size	Code
Black	310ml	20054
White	310ml	20055
Grey	310ml	20082

Colour	Size	Code
Black	600ml	20064
White	600ml	20066
Grey	600ml	20069



Premium Hybrid Facade Sealant

GORILLA MS SEALANT

Gorilla MS Sealant is an all-purpose, single-component joint sealant based on the latest MS Polymer technology.

- High-performance MS
- BRANZ-Appraised formulation
- High elongation of break
- Works on damp surfaces
- Paintable 1 hour after application
- UV resistant
- AsureQuality tested
- Easily repairable

Colour	Size	Code
White	420gm	20600
Grey	420gm	20601
Black	415gm	20602

Colour	Size	Code
Black	600ml	20603
Grey	600ml	20604
White	600ml	20605
Titania	600ml	20607



PRODUCTS

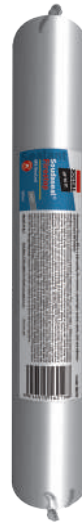
Premium Hybrid Facade Sealant

SOUDAL SOUDASEAL FIRESTOP MS SEALANT

Soudal Soudaseal Firestop MS is a high-quality, fire-resistant, smoke-tight, neutral-cure, elastic, single-component joint and adhesive sealant.

- Ideal for fire-retardant expansion and connection joints, fire-resistant sealing of connection joints and the sealing of fire-retardant joints in prefabricated buildings
- No bubble formation within sealant (in high-temperature and -humidity applications)
- Primerless adhesion on many substrates (except where water pressure may occur)
- Colour stable and UV resistant
- Paintable, with water-based paints
- Excellent weather resistance in all climates
- Low VOC

Colour	Size	Code
Grey	600ml	56219



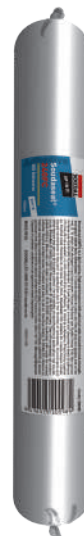
General Use & Facade Sealant

SOUDAL SOUDASEAL 240FC MS ADHESIVE

Soudal Soudaseal 240FC is a high-quality single-component product with high adhesive strength and initial tack. It is based on MS Polymer technology and is excellent for strong elastic bonding in areas subject to vibration.

- Very easy to apply
- Permanently elastic after curing
- Excellent adhesion
- High resistance to many chemicals
- AgriQuality approved for flooring joints

Colour	Size	Code
White	600ml	20098
Grey	600ml	20101
Black	600ml	20105



High-Quality Primer

GORILLA PRIMER 150

Gorilla Primer 150 is a universal primer for porous surfaces, designed to be used to prepare the area before applying silicone sealants and MS Polymer based sealants. To be used on walls with expansion joints, and walls composed of porous materials with high water exposure.

- Liquid, easy application
- Suitable for silicones and MS Polymer-based sealants and adhesives

Colour	Size	Code
Clear	500ml	20057



PRODUCTS

High-Quality MS Gun

GORILLA FIXALL MS 600 EXPERT PLUS GUN

Specifically designed and manufactured for high-viscosity product; a super-strong and reliable product that fits cartridges and sausages.

- Designed for FixAll MS
- Will fit cartridges or sausages
- 4 x stronger than many standard guns
- Incredibly versatile with a thrust ratio of 26:1

Colour	Size	Code
Red/Black	-	21105



High-Quality PEF Rod

GORILLA PEF BACKING ROD

Gorilla PEF Rod 50m is used around windows, doors and other penetration openings. It ensures the sealant does not completely fill the cavity. For use with pre-cast concrete slabs and joints between brick and masonry.

- Controls the correct joint depth
- Ensures appropriate movement of sealant
- Complies with ASTM standard as per NZ Building Code
- Water resistant, no water absorption
- Available in reels for ease of use

Colour	Size	Code
White	15mm x 50m	39164
White	30mm x 50m	39166
White	25mm x 50m	39167
White	20mm x 50m	39168

Colour	Size	Code
White	13mm x 50m	39169
White	10mm x 50m	39170
White	8mm x 50m	39171
White	6mm x 50m	39172



High-Quality MS Cartridge Gun

GORILLA FIXALL MS GUN HEAVY DUTY

A cartridge-only gun designed for high-viscosity products, super strong and reliable.

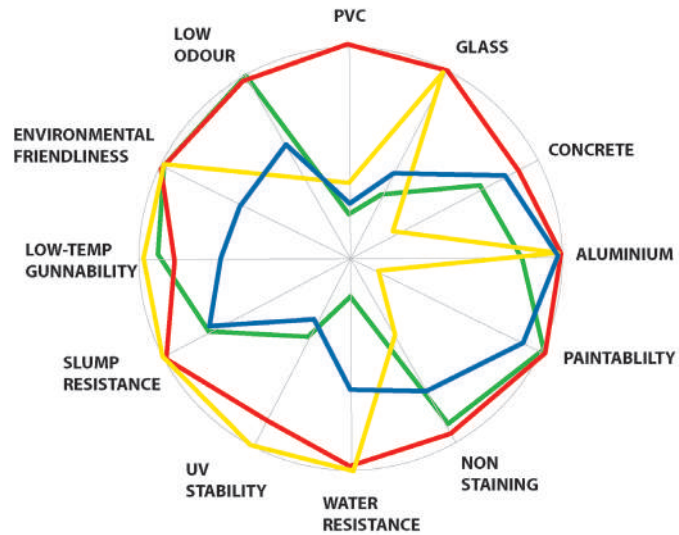
- Reinforced pawl design – extra strength
- Perfect for MS, high-viscosity sealants & adhesives
- Super strong
- Accurate action
- Fits all sizes 300–380ml cartridges

Colour	Size	Code
Red/Black	-	21104






CONSTRUCTION SEALANT CHARACTERISTICS

- MS POLYMER
- PUs
- SILICONE "ACETIC"
- ACRYLICS



MATRIX

	FACADE SEALANT	GENERAL USE & FACADE SEALANT	(Elastic Facade Sealant) HYBRID FACADE SEALANT
SODAL SOLUTION	SOUDAFLEX FACADE 20LM 	GORILLA 940FC 	GORILLA MS 
PERFORMANCE			
TECHNOLOGY	Polyurethane +	Polyurethane +	Hybrid
MODULUS	Low	Mid/High	Low
ELONGATION AT BREAK	> 800	> 800	> 800
SKIN FORMATION (min)	35-45	35-45	10-15
SHORE A HARDNESS	29 ± 5	36 ± 5	25 ± 5
ADHESION TO CONCRETE	★★★★★	★★★★★	★★★★★
ADHESION TO COATED METALS	★★★★★	★★★★★	★★★★★
ADHESION TO VARIOUS WINDOW PROFILES (COAST,PVC,ETC.)	★★★★	★★★★	★★★★★
UV RESISTANCE	★★★★★	★★★★★	★★★★★
SLUMP/SAGGING	★★★★★	★★★★★	★★★★★
BUBBLE FREE CURING	★★★★★	★★★★★	★★★★★
STANDARDS			
ISO 11600 / CE	F EXT-INT 25LM	F EXT-INT 25HM	F EXT-INT 25LM
OTHERS	ASTM C920 CLASS 35	SNJF	ATG/RAL CERTIFIED/ASTM C920 CLASS 50

★★★★ Good

★★★★★ Excellent

★★★★★★ Superior

EXPERTS IN SEALANTS, FOAMS & ADHESIVES



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