



# Technical Data Sheet



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## Outdoor Frame Sealant

Multi-purpose neutral silicone sealant

### CHARACTERISTICS

Unibond Outdoor Frame Sealant is a low modulus, ready-to-use, one component, neutral curing silicone sealant with excellent primerless adhesion to a variety of substrates.

- Low modulus.
- 12.5% movement capability
- Easy to apply and to tool.
- Smooth matt appearance.
- Good UV-, weather and ageing resistance.
- Waterproof.
- Good primerless adhesion on numerous substrates such as glass, tiles, ceramics, anodized or pure aluminium, steel, stainless steel, wood (painted or otherwise), polyester, polycarbonate, PVC, clinker brick (glazed and unglazed) concrete and other porous substrates.
- No residual tack.
- Non-corrosive to metals.
- Low odour during application.
- MEKO and oxime free



### APPLICATIONS

Outdoor Frame Sealant can be used for:

- Sealing uPVC, metal, and wooden window and door frames
- Cladding
- Fascia boards and soffits
- Gutters

### STANDARDS

|               |  |
|---------------|--|
| BS EN 15651-1 | product type F-EXT-INT-CC: sealant for facade for interior and exterior applications (intended for use in cold climates) |
| BS EN 15301-1 | reaction to fire: class E  |
| ISO 11600     | class F-12,5E  |



## TECHNICAL DATA

| <b>Before curing</b>          |             |
|-------------------------------|-------------|
| Type of silicone              | Neutral     |
| Appearance                    | Paste       |
| Density (ISO 2811-1)          | ~ 1,37 g/ml |
| Resistance to flow (ISO 7390) | ~ 1 mm      |

| <b>Curing</b>  |                  |
|--|------------------|
| Skin formation time (+23 °C / 50% RH)                        | ~ 15-30 min.     |
| Curing speed (+23°C, 50% RH, cross-section of joint 20x10mm) | ~ 2-2,5 mm / day |
| Application temperature                                      | + 5°C to + 40°C  |

| <b>After curing</b>             |                   |
|---------------------------------|-------------------|
| Shore A hardness (ISO 868)      | ~ 20              |
| Movement capability (ISO 11600) | 12.5%             |
| Max. joint width                | 30 mm             |
| Change of volume (ISO 10563)    | < 25%             |
| Temperature Resistance          | - 30°C to + 120°C |

| <b>Mechanical properties</b>                                       |                         |
|--|-------------------------|
| Elastic recovery<br>(On anodized aluminium - ISO 7389-A)           | ~ 75%                   |
| Modulus at 100% elongation<br>(On anodized aluminium - ISO 8339-A) | ~ 0.3 N/mm <sup>2</sup> |
| Elongation at break<br>(On anodized aluminium - ISO 8339-A)        | ~ 300%                  |

## INSTRUCTIONS FOR USE

Outdoor Frame Sealant is supplied ready-to-use and can be applied from the original packaging with no special pre-treatment.

### Surface preparation

All surfaces must be clean and dry, free from any dust and grease or anything which is likely to impair adhesion of the sealant.

Residues of old sealant or other materials as well as mould on the substrate must be removed completely (if necessary, use a silicone remover).

To get best sealing results it is recommended to mask edges of the joints with a tape before application of the sealant mass.

### Joint dimensions

The movement capability of the sealant as well as local regulations must be considered.

In general, the joint width must be > 10mm and < 35mm and the joint width should be twice the depth.

In the case of deep joints, fill with PE foam 'Bacher Rod' prior to applying sealant.

### Sealant application

The sealant should be applied ensuring that the seal is filled. Smoothing off the seal ensures good contact between the sealant and the bonding surfaces.

Directly after application, smooth off with an Unibond sealant smoother tool.

Remove any tape immediately, before surface skin has formed on the sealant.

Smooth over any proud sealant edges immediately.

**Cleaning tools/ Excess sealant**

Fresh sealant may be cleaned with a cloth soaked in white spirit or alcohol (e.g., methylated spirit)  
Cured sealant can be removed by scraping (e. g. using a razor blade) or by using a special silicone remover product.

**Drying time**

The sealant will be touch dry in 30 mins and fully dry in approx. 24 hours\*

*\*Curing speed is dependent on temperature, air humidity and on the dimensions of the joint. Low temperatures, high air humidity or big joint dimensions require longer curing times.*

**Please note.**

The joint must be cleaned and maintained regularly.  
Ensure good ventilation in the room where the sealant is applied.

**LIMITATIONS**

For any applications on sensitive surfaces (e.g., mirrors) carry out preliminary testing to check compatibility with the sealant.

Not recommended for joints that are in direct food contact.

Not recommended for structural glazing applications.

Must not be used as a secondary sealant in insulating glass units and must not come in contact with the edge seal of insulated glass.

Must not come in contact with the interlayer of laminated (safety) glass.

Not recommended for swimming pool joints, for aquarium joints or areas of permanent damp.

Cannot be over-painted.

Before using on painted substrates, paint has to be completely dry and cured. Prior compatibility tests are recommended, considering the variety of paints that exist.

Not recommended on materials which can exude certain components over time (butyl sealant, EPDM rubbers, polychloroprenes, etc.). Discolouration or reduction of adhesion properties could take place.

Do not apply to natural stone. For applications on natural stone use a special natural stone silicone.

Not recommended for applications on PMMA (Plexiglass®), lead, PTFE (Teflon®), polyethylene and polypropylene.



## GENERAL INFORMATION

### Storage

Store in a cool, dry place between +5°C and +25°C. Shelf life is 18 months in the unopened cartridge after date of manufacture (the expiry date is shown on the packaging).

### Packaging

Cartridge – 384g

### Colours

White

Brown

## HEALTH AND SAFETY

Before using the product please see related Material Safety Data Sheet that is available to download from [mysds.henkel.com](http://mysds.henkel.com).

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