

Making windows on-site
easily and practically

More information
from specialist suppliers

Special case
wooden windows

Coaxial cartridge

The practical coaxial cartridge makes it easy to safely use the 2-component silicon OTTOCOLL® S81. It is composed of two cylinders placed in each other which homogenously and highly precisely mix the two components via a special nozzle screwed on the cartridge. This means that the 2-component silicon with the coaxial cartridge can be processed as usual using a 1-component hand-operated gun.



BlueLine cartridge

With immediate effect, the two products OTTOCOLL® S81 and OTTOCOLL® S670 are also available in the “BlueLine” cartridge for 2-component guns. Their greater outlets increase the applied quantity. The “BlueLine” cartridge is available as an alternative for OTTOCOLL® S81, whereas it replaces the former 490-ml cartridge for the OTTOCOLL® S670.



For ease of use, we recommend the H 245 OTTO Hand-operated Gun with its higher press force.



Supplier's stamp

For information relating to certification marks, please see www.otto-chemie.de under the heading „Information on Certification Marks“. The requirements and test criteria of the DGNB and LEED can be found on www.dgnb.de and www.german-gba.org. Please note that these companies do not evaluate our individual products, but the sustainability as a whole of each complete building project.

The information in the present document corresponds to the status quo on going to print, refer to the index. With a new edition this edition becomes invalid. Due to the many possible influences during and after application, the customer always has to carry out trials first. Please observe the respective technical data sheet! This information is available on the Internet at www.otto-chemie.com. Errors and typographical errors are excepted.

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Sealants • Adhesives

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**The 2-component silicone for
“bonded windows”**



Sealants • Adhesives

A systematic way to make windows

The most important features at a glance

OTTOCOLL® S 81

Wooden, aluminium and PVC windows bonded with **OTTOCOLL® S 81** offer a significant improvement in thermal and noise insulation. Due to the load-bearing bond, large, attractive window areas or slimmer frames can be made which meet the demands of today's architecture.

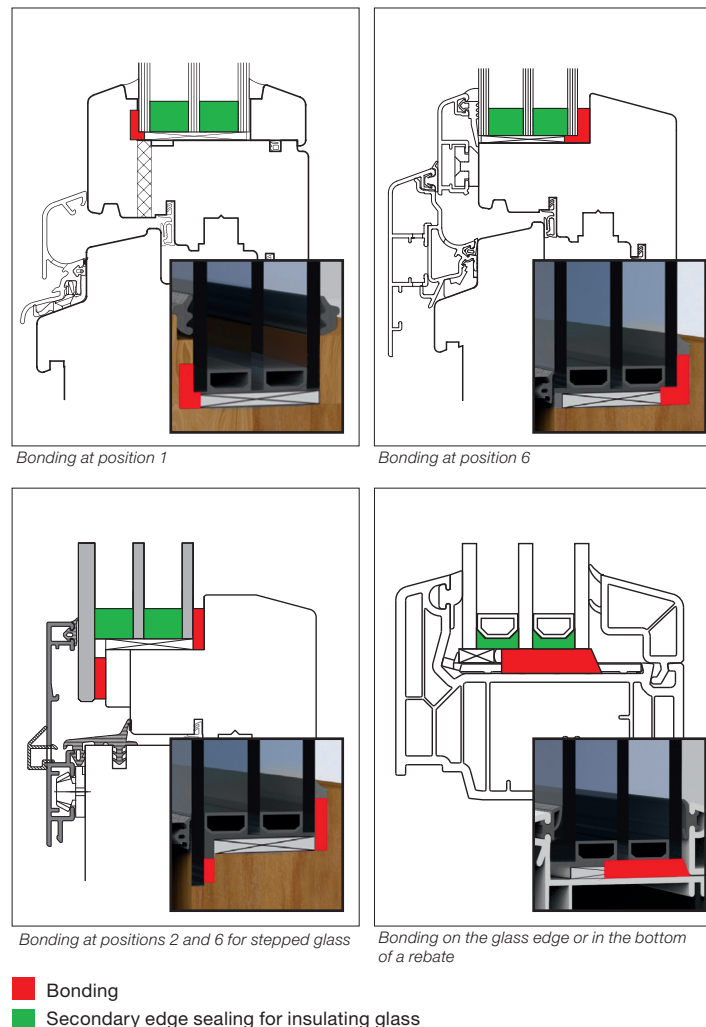
Window systems bonded with **OTTOCOLL® S 81** have already been successfully tested against the requirements in EN 1627-1630 and according to RC 2 and RC 3.

The two-component silicone adhesive has been specially developed for the bonding of insulating glass units with the sash made of PVC, aluminium or wood. Apart from the side-by-side cartridge, the adhesive is now also available in the practical coaxial cartridge intended for use on building sites.

System requirements:

The decisive factor for a window to be flawless in the long term is the compatibility of all relevant materials. We thus recommend that all materials adjacent to the windows be checked for compatibility.

Please see our website for compatibility lists for PVC, aluminium and wooden windows, for test certificates for RC bonds and for practical information on using the two-component materials.



2-component silicone adhesive and sealant on alkoxy basis condensation curing

For indoor and outdoor application

Characteristic

- **Compatible with many insulating glass edge compound materials - see compatibility list on website**
Suitable for processing insulating glass panes
- **Compatible with PVB sheets according to ift guideline DI-02/1**
Suitable for processing VSG
- **Very good adhesion on many substrates even without primer**
Often primerless processing possible, see primer table in technical data sheet
- **Low odour**
Convenient processing
- **Fast curing even in thick layers**
Fast further processing
- **Reliable curing in a defined period of time**
Reliable curing in a defined period of time
- **High elongation stress value**
High stability of the adhesion
- **High resistance to notches, tension and tearing**
Resistant to high mechanical stresses
- **Excellent weathering, ageing and UV-resistance**
For long-lasting indoor and outdoor applications

Fields of application

- Bonding and sealing of windows - direct glazing - bonding of insulated glass units in the window casements (PVC, wood, aluminium) - please note compatibility list.
- Bonding and sealing of glass elements (e. g. partitioning walls)
- Suitable for the production of windows reaching standard RC 2 or RC 3 according to DIN V ENV 1627

Standards and tests

- Tested according to RAL GZ 716/1, paragraph III, part A, 3.5 and ift-guideline VE-08/1, part 1, adhesion behaviour on PVC, overlap adhesion on position 1
- Tested according to RAL GZ 716/1, paragraph III, part A, 3.5.4, floating roller peel test to determine the adhesion strength in rebate bondings
- Tested according to ift-guideline VE-08/1, part 1, adhesion behaviour on wood, overlap adhesion on position 1
- Qualified commentary by the eph Dresden, Germany on the execution of glass-connecting systems in burglary proved wooden windows of the resistance class RC 2, rebate bonding in combination with bonding of the glass stemming profile
- Classification according to building certification systems, see the sustainability data sheet