

SG200

2C SILICONE SEALANT – BLACK

TREMCO
Lasting Performance



KEY BENEFITS SUMMARY

- Two-component
- Neutral mastic, no strong odor
- Excellent adhesion with or without primer, as defined by the suitability test results
- Outstanding resistance to ultraviolet exposure
- Cross-linking rate independent of the seal thickness
- Its quality ensures regular extrusion

PRODUCT INFORMATION

Description

- SG200 Black is a high modulus, two-component, neutral and elastomeric, two-component silicone sealant.
- SG200 Black has been specially designed to meet the frame bonding requirements as per the Structural Glazing Application technique.

Areas of use

SG200 Black is ideally suited for structural glazing applications (SSG). Its implementation is subject to compliance with the local official procedures in place and compliance with the SSG specifications. It has been specially designed for applications in the curtain walls joining workshop.

The relative humidity must not exceed 80% during application.

Packaging

- Part A: 190 L drum or 19 L drum
- Part B: 18 L canister

Storage

In dry conditions between +5°C and +25°C.

Service life

- Part A in original unopened packaging: 12 months
- Part B in original unopened packaging: 9 months

Chemical resistance

- Excellent resistance to common facade cleaning products.
- Resistant to dilute bases, salt spray and short-term exposure to all common solvents and hydrocarbon-based products (may cause a softening/swelling).

Implementation

- Joint Design Consideration: Structural glazing operations should only be carried out after consultation with tremco illbruck Technical representative.

Joint design for SSG applications should follow ETAG 002 principles and project based calculations checked by tremco illbruck.

- Compatibility: The compatibility of any accessory (such as spacer tapes, gaskets, setting blocks, etc.) and related products (such as weather sealing or IG unit perimeter sealant, etc.) must have been tested with SG200 Standard.

Please contact tremco illbruck Technical Service for more information about the compatibility testing prior to commencement of application.

- Application methods: Parts A and B must be used as soon as the packages are opened.

SG200 Black is compatible with all types of manual and robotic dispensing equipment currently available (usual volume ratio = 10/1).

For Part B, we recommend using a circuit lined with PTFE to minimize moisture penetration.

Proper Factory Production Control (FPC) is necessary to ensure the quality of the manufacturing process.

The monitoring of this process is one of the conditions for obtaining the SSG PASS (PASS VEC) in compliance with specification CSTB 3488 v.2. (More details are available in the identification sheet of May 2012, v.5).

Tooling of silicone must be done during the pot life time.

- **Frame handling:**
Handling of frames or units with freshly applied material is possible up to 2 hours after application. After this, the glass or frames must not be moved for 24 hours. Stacking of units is prohibited! On-site installations can be carried out from 2 to 3 days after manufacturing.

FPC and adhesion test results must be reviewed before installation. (More details are available in the identification sheet of May 2012, v.5).

Preparation

- **Surface preparation:**
Surface preparation must be carried out in accordance with the recommendations of the project suitability tests.

Surfaces must be clean, dry and free of grease or finger marks before the mastic is applied.

- **Substrate cleaning:**
Substrates such as metals, glass and other materials must be cleaned using a clean tissue soaked in solvent, then using a clean, dry tissue (double tissue technique). Use of MEK or MIBK is recommended for some substrates (such as anodized aluminium, stainless steel) and IPA for other substrates (such as coated aluminium or glass).
- **Substrate priming:**
Many substrates may require application of SG010 to optimise adhesion performance.

Cleaning

- Tools must be cleaned immediately after use with IPA or MEK.
- Dry mastic must only be removed mechanically.

Compliance and Approvals

- SG200 Black has the European Technical Assessment (ETA) 05/0005 as well as the CE marking according to the guide EOTA ETAG 002.
- The product is also certified SNJF-VEC.

Safety precautions

The Technical and Safety Data Sheets must be read and understood before use.

Service

Our team of technicians remains at your disposal for any further information.

Note

The information in this document is provided for informational purposes and are non-binding. Technical data are not expressly warranted characteristics of the goods.

Because the variety of material used, the variety of application processes and the variety of conditions of use are beyond our control, preliminary tests are strongly recommended before any order.

The information and illustrations being reproduced on this document are based on features in progress and on our experience at the time of May 2015.

The manufacturer reserves the right of modifying the technical characteristics of its products at any time.

The warranty policy of these products is exclusively governed by our general terms and conditions of sales. tremco illbruck can not be held liable based on the general information given by this document.

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TECHNICAL DATA

CHARACTERISTICS	STANDARDS	VALUES	
		Part A	Part B
Components		Part A	Part B
Sealant type		Two-component neutral silicone	
Color		Off-white	Black
Mixing color		Anthracite	
Density*		1.33	1.05
		1.31	
Working time*		30 to 60 minutes	
Tack-free time ^{1)*}		80 minutes	
Ratio by weight		13.0	1
Ratio by volume		10	1
Tolerance ratio (in weight)		Min 11.0	Min. 1
		Max. 14.0	Max. 1
Shore hardness A *	EN ISO 868	35	
Tensile stress at break	EN ISO 8339	>1.00 MPa	
Design tensile stress*	ETAG 002	0.14 MPa	
Design shear stress under permanent load*	ETAG 002	0.007 MPa	
Secant modulus at 12.5% elongation K12.5	EN ISO 8339	>1.4 MPa	
Elongation at break	EN ISO 8339	>200%	
Elastic recovery (after 25% extension over 24 hours)	EN ISO 7389	>95%	
Recommended application temperature		+15°C to +35°C	
Service temperature range		-40°C to +150°C	

¹⁾At 23°C, 50% relative humidity

*Typical values

At low or high temperatures, polymerization time and speed may vary. Contact us in advance for large application and storage temperature differences.



tremco illbruck Production SAS, Route de Gray,
21850 Saint Apollinaire, France
T: +33 (0) 971001824
F: +33 (0) 380748392
glazing@tremco-illbruck.com
www.tremco-illbruck.com



www.tremco-illbruck.com