



BSF WS+ SealMax

NEUTRAL WEATHER SEALANT

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| ISO 9001 BUREAU VERITAS Certification | |
| COD.FICHA: | FT-350010-1 |
| Nº EDICIÓN: | 02 |
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DESCRIPTION

BSF WS+ SealMax is a neutral curing one component silicone sealant that has excellent weather, ageing and UV resistance properties and is specially developed for the weather sealing of structural glazing, angled glazing, wood-glass composite units, roof glazing and conservatories.

FEATURES

- Excellent weathering, ageing and UV-resistance.
- Non-corrosive.
- High resistance to notches, tension and tearing.
- Excellent adhesion to many substrates.
- Compatible with PVB-foils in laminated safety glass.
- Suitable for insulating glass sealing based on silicone.

APPLICATION

BSF WS+ SealMax is used for weather sealing of structural glazing, aluminum composite panels cladding, angled glazing, wood-glass composite units, roof glazing and conservatories. It is also suitable for joints on insulating glass units and glass elements made of laminated and tempered safety glass.

ADVANTAGE

- Neutral cure
- Low odor
- Joint movement capability \pm 50%. (Under ASTM C920 Type S, Grade NS, Class 50)

TECHNICAL DATA

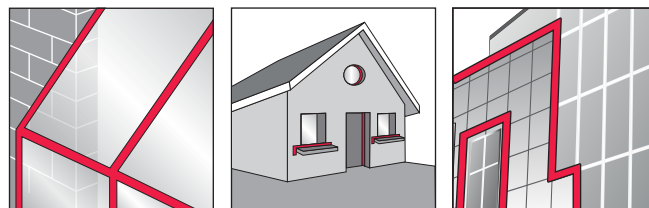
| Physical Properties | Test Method | Typical value |
|--|-----------------|------------------|
| Specific Gravity @ 25 °C, g/ml | ASTM D1475 | 1.18 – 1.22 |
| Skin over time @ 25 °C, Minutes | - | 3 - 5 |
| Tack Free Time @ 25 °C, Minutes | ASTM C679 | 20 - 30 |
| Flow (sag or slump) | ASTM C639 | Non - Sag |
| Depth cure per day, mm | - | <2 |
| VOC, (g/L) | USEPA Method 24 | 40 |
| Tensile Strength, N/mm ² | ASTM D412 | 0.7 - 1 |
| Elongation at break, % | ASTM D412 | 300-500 |
| Hardness : Shore A | ASTM D2240 | 22 - 26 |
| Joint Movement Capability, % | ASTM C920 | \pm 50 |
| Peel Strength on concrete, N | ASTM C794 | >35 |
| Effects of Accelerated Ageing @ 300 hrs. UV exposure | ASTM C793 | No deterioration |
| Application Temperature (°C) | - | +5 to +40 |

SUBSTRATE PREPARATION

Surfaces must be clean, dry and neat. Since new material is often covered with a protective film solvent, wash all surface materials with a wet brush and an oil-free solvent. Use masking tape where bead lines of exact shapes are required. Masking tape should be removed immediately after a bead is completed and before a skin begins to form. An air-operated or hand operated tool may be used to apply the sealant.

PRIMING

Primers are not usually required. However, priming can be made on certain substrates for improved adhesion.



DIRECTIONS FOR USE

- Ensure that surfaces are prepared as above
- Cut tip off cartridge and screw the nozzle onto the cartridge. Cut the tip of nozzle at an angle of 45° to achieve the desired bead size

TOOLING AND FINISHING

Tooling and finishing must be carried out within the skin time of the sealant. When tooling freshly applied BSF WS+ SealMax press the sealant to the joint bond line surface to get a good wetting of the bonding surface.

CURING TIME

Cure time is affected by relative humidity, degree of confinement and cross-sectional thickness of the sealant. BSF WS+ SealMax cures upto 2mm per day.

CLEAN UP

Excess sealant and smears adjacent to the joint interface can be carefully removed with xylene or mineral spirits before the sealant cures. Any utensils used for tooling can also be cleaned with xylene or mineral spirits. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed immediately using a suitable industrial hand cleaner and water. Do not use solvents!

APPLICATION

After suitable joint and substrate preparation, can be gunned into place. Joints must be properly dimensioned as changes are no longer possible after construction. For optimum performance the joint width should be designed according to the movement capability of the sealant based on the actual expected movement. The minimum joint depth is 6 mm and a width / depth ratio of 2:1. For proper joint geometry and to prevent 3 sided adhesion to maximize sealant joint movement capability it is recommended to use compatible closed cell polyethylene or non out gassing polyolefin backer rod. If joints are too shallow for backing material to be employed, we recommend using a polyethylene tape. This acts as a release film, allowing the joint to move and the silicone to stretch freely.

IMPORTANT INFORMATION

Before applying this product the user has to ensure that the materials in the area of contact (solid, liquid and gaseous) are compatible with it and also amongst each other and do not damage or alter (e.g. discolor) each other.

As for the materials that will be used at a later stage in the surrounding area of the product the user has to clarify beforehand that the substances of content or evaporations do not lead to an impairment or alteration (e. g. discolouration) of the product. In case of doubt the user should consult the manufacturer of the material.

After curing the product is completely odourless, physiologically harmless and unmodified. The required vulcanization time prolongs with increasing thickness of the silicone layer. One component silicones must not be used for full-surface bonding applications unless special constructional prerequisites are met.

LIMITATIONS

Cannot be over-painted

SAFETY

Safety data sheet is available upon request.

STORAGE AND SHELF LIFE

BSF WS+ SealMax has a shelf life of 12 months from date of production when stored in the original unopened containers at or below 25°C. In countries where high heat and humidity are a factor, special precautions must be taken to store the product in a covered, well-ventilated warehouse and avoid excessive heat conditions.

PACKAGING

300ml cartridge, 400ml sausage and 600ml sausage.

COLORS

BSF WS+ SealMax is available in black and white.

Other colors are available upon request.

Cured product: by Mechanical means.

Fresh product: With organic solvents.

Note:

The technical information provided by **BSF Bond | Seal | Fill**, either verbally or in writing is based on our present knowledge and is given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved.

The user is obliged to ensure that our products are suitable for the process and the use in question.

In any case our liability is limited to the value of goods supplied by us and used by you. We provide products with consistent quality, according to our general conditions of sale and distribution