

TECHNICAL SHEET 28.02.02-EN



SIGILL Silicone Extreme 780

Sealant for demanding construction works

1. Description, Application

SIGILL Silicone Extreme 780 is a one-component low modulus silicone sealant with neutral crosslinking. Cures at room temperature under the action of atmospheric moisture to provide a permanently flexible silicone elastomer. The product has outstanding characteristics of workability, adhesion to various substrates and allow to create elastic joints for perimeter finishes, windows and building applications in areas of high humidity, such as bathrooms.

2. Certificates

Certified and tested according to:
 EN 15651 – 1: Class 25 LM F - EXT - INT – CC
 EN 15651 – 2: Class 25 LM G - CC
 EN 15651 – 3: Class XS1
 ISO 11600 – G, class 25 LM
 ISO 11600 – F, class 25 LM – Façade
 SNJF Label – Vitrage 25E and Façade 25E
 EMICODE EC 1 PLUS

3. Technical data

Packaging	300 ml
Color	Transparent, white, grey, graphite, beige, anthracite, manhattan
Appearance	Tixotropic paste - non sagging
Chemical nature	Alcoxy curing silicone

Curing mechanism	Moisture curing
Curing trough volume [mm/24h] (NPT method 07) (23°C and 50% RH)	~ 3 mm
Density (NPT method 06) (23°C and 50% RH)	~ 1.02
Hardness shore A (ISO 868)	~ 22
Skin forming time (NPT method 17) (23°C and 50% RH)	~ 25
Elastic modulus (ISO 8339)	~ 0.37 N/mm ²
Tensile strength (ISO 8339)	~ 0,7
Elongation at break (ISO 8339)	> 300
Tear strenght (ISO 34)	~ 4,0
Joint movement capability (ASTM C920)	+/- 25
Application temperature	from +5° to +40°C
Temperature resistance	from -40°C to +150°C

4. Installation Conditions

The temperature of the air and the wall base should be from +5 °C to +40 °C, and the relative air humidity should not be higher than 80%. The optimum working temperature for both the substrate and the sealant is between +15° C and +25°C.

5. Areas of Application

Sealing of joints on wooden, metal and plastic windows and door. Sealing of joints on walls, facades and metal constructions. Suitable for sealing windows and for joints in bathroom areas.

6. Features

- Rapid cross-linking
- Primerless adhesion to most materials
- Not corrosive to metals
- Suitable for alkaline substrates such as concrete, mortar, fibrous concrete
- Contains fungicides, suitable for use in areas of high humidity
- Adheres excellently to glass and metals
- Excellent resistance to weathering, UV and aging
- Easy extrusion at low (+ 5 ° C) and high (+ 40 ° C) temperatures
- Flexible at low (-40 ° C) and high (+ 150 ° C) temperatures
- Non sagging
- Odorless

7. Instruction for Use

To obtain maximum performance in terms of adhesion, the surfaces involved must be dry and clean; in particular, to remove grease or grease it is possible to use degreasing solvents. It adheres to most surfaces (anodized

aluminum, glass, ceramic, polyester). In the presence of adhesion problems on particular surfaces, it is advisable to consult the manufacturer for the choice of a specific Primer.

THE PRODUCT CANNOT BE OVER-PAINTED.

Remove the threaded upper part from the plastic nozzle, screw the nozzle and cut it at an angle based on the desired thickness and profile of the bead. Insert the cartridge into a manual or pneumatic gun (preferably with a telescopic piston) and extrude the sealant carefully, avoiding trapping air. Once opened, the packages must be used within a relatively short time.

Smoothing and finishing should be carried out within the open time (skin formation time) of the sealant. As the system is moisture curing, allow sufficient exposure to air. Bonded elements may require additional holding or support during the curing period.

SIGILL Silicone Extreme 780 should not be used for double glazing and is not recommended for use on marble, natural stone (may cause halos), insulating or structural glazing applications, for sealing aquariums or for long-term use under water. Not suitable for food contact applications.

8. Cleaning of Equipment and Personal Protective Measures

Clean the tools used with White spirit. Once hardened, the product can only be removed mechanically. Avoid skin contact by using latex, rubber or polyethylene gloves. If it comes in contacts with skin, remove immediately and wash with soap and water.

9. Storage, Transportation Conditions and Shelf Life

SIGILL Silicone Extreme 780 can be stored for 24 months in its original packaging (unopened cartridge) between 10°C and 25°C in a cool and dry place. Keep away from wet areas, direct sunlight and heat sources.

10. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

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