

## TECHNICAL SHEET 28.02.03-EN



# SIGILL Silicone High Temp 790

## High temperature resistant sealant

### 1. Description, Application

Cures at room temperature under the action of atmospheric moisture to provide a permanently flexible elastomer with exceptional adhesion and resistance to high temperatures, maintaining properties up to 250°C (300°C for short periods).

### 2. Certificates

### 3. Technical data

<b>Packaging</b>	300 ml
<b>Color</b>	Red, black
<b>Appearance</b>	Tixotropic paste - non sagging
<b>Chemical nature</b>	Acetoxy curing silicone
<b>Curing mechanism</b>	Moisture curing
<b>Curing trough volume [mm/24h]</b> (NPT method 07) (23°C and 50% RH)	~ 3 mm
<b>Density</b> (NPT method 06) (23°C and 50% RH)	~ 1.03
<b>Hardness shore A</b> (ISO 868)	~ 22
<b>Skin forming time</b>	~ 15

(NPT method 17) (23°C and 50% RH)

<b>Elastic modulus</b> (ISO 8339)	~ 0.47 N/mm <sup>2</sup>
<b>Tensile strength</b> (ISO 8339)	~ 0,7
<b>Elongation at break</b> (ISO 8339)	~ 250
<b>Tear strenght</b> (ISO 34)	~ 4,2
<b>Application temperature</b>	from +5° to +40°C
<b>Temperature resistance</b>	from -40°C to +250°C (peaks at 300°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 in furnace and chimney construction. Suitable for industrial applications, bonding and sealing in boilers, stoves, waste boxes, etc. It can also be used to create gaskets in the automotive sector (engines, gearboxes).

#### 6. Features

- Solvent-free
- Rapid skin formation and reticulation.
- Adheres excellently to glass and metals
- Non sagging
- Excellent resistance to bad weather, UV and aging
- Easy extrusion at low (+ 5 ° C) and high (+ 40 ° C) temperatures
- Flexible at low (-40 ° C) and very high (+ 250 ° C) temperatures

#### 7. Instruction for Use

To obtain maximum performance in terms of adhesion, the surfaces concerned must be dry and clean; in particular, degreasing solvents can be used to remove grease. The acetic silicone adheres to most surfaces (anodized aluminum, glass, ceramic, polyester).

THE PRODUCT IS NOT OVER-PAINTABLE.

Remove the top part of the threaded top screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and extrude the sealant carefully preventing air entrapment.

Once opened, packs should be used up within a relatively short time.

Tooling and finishing must be carried out within the tack-free time of the sealant. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

SIGILL Silicone High Temp 790 must not be used for insulating glass applications and not recommended for structural glazing applications, for sealing of aquaria or for longer-term use under water. Not suitable for food processing application.

#### 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 contact with the skin, remove immediately and wash with soap and water.

## 9. Storage, Transportation Conditions and Shelf Life

SIGILL Silicone High Temp 790 can be stored for 18 months in its original packaging (unopened container) between 10°C and 25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. 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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