



# CERESIT CS28

## Heat Resistant

**Packaging:** 300 ml cartridge

**CERESIT CS28 Heat Resistant** is a one-part moisture curing silicone sealant acetic system which is stable and flexible from -65°C to +260°C with short peaks up to +315°C. It adheres to clean metal, glass, most types of non-oily woods, silicone resin, vulcanised silicone rubber, ceramic, natural and synthetic fiber and many painted and plastic surfaces.

### CHARACTERISTIC

- **Good adhesion to many non-porous substrates**
- **Specific smell during vulcanisation**
- **Resistant to ozone, ultra-violet radiation and temperature extremes**
- **High temperature resistance (up to +315°C)**
- **Stays permanently elastic after curing**

### APPLICATIONS

- **Sealing and bonding applications exposed to high temperatures**
- **Sealing between metal parts**
- **Gaskets in pumps and motors**
- **Sealing of joints exposed to long-term temperatures like oven and chimney construction**

### STABILITY

The product quality is preserved unchanged for 18 months after the date of production if stored in a cool (between +5°C and +30 °C), dry place in unopened cartridges.

### APPLICATION

The application temperature of the silicone must be at least +20°C. It is recommended to perform jointing at temperatures between +5°C and +40°C. At temperatures lower than +5°C, jointing can only be carried out if the joint faces are free of condensation, snow and ice. Surfaces to be filled must be clean and dry. Especially greasy surfaces must be cleaned with acetone or CERESIT CLEANER. White spirit can be used for cleaning metal surfaces. If the joint is filled with old sealant, which could make the adhesion poor, the old filling has to be completely removed and the surfaces cleaned.

**PRIMER:** no primer required for non-porous surfaces

### JOINTING

Cut the cartridge tip and screw the nozzle onto the cartridge. The tip of the nozzle should be cut off aslant (at about 45 degrees) according to the joint width. Place the cartridge in the silicone applicator. Compress the filling tightly in the joint. Special consideration should be given to the adhesion of edges. Smooth the silicone with a wet piece of wood or jointer. The silicone surface will not adhere after about 10 minutes. It's not recommended to overcoat CERESIT CS28, because paint will not stick to the surface of the silicone as a result of its elasticity. Tools and stained surfaces can be cleaned with white spirits before the filling has completely vulcanised.

**JOINT SIZE:** min width 6 mm / max width 30 mm / min depth 2 mm / **recommendation:** for joints between 6 – 12 mm wide a seal depth 6 mm

**CLEANING:** with white spirit immediately after use.

## RESTRICTIONS ON USE

### CERESIT CS28 should not be used:

- In contact with corrosive metal (copper, lead) surfaces – during vulcanisation releases acetic acid
- On natural stones – they may be stained in contact with sealant
- For jointing and mounting of mirrors – risk of corrosion of a mirror surface
- Using sealant on substrates, such as concrete, cement and mortar should be avoided, because of releasing of acetic acid during vulcanisation.

### SAFETY

The acetic acid vapours emitted during solidification can cause irritation of the respiratory system, if inhaled in large quantities or over a prolonged period of time. Hence work in a well-ventilated area or use protective mask. Should unvulcanised silicone rubber come into contact with eyes or mucous membranes, the affected area must be rinsed thoroughly with water, as irritation will otherwise be caused. Vulcanised silicone rubber can be handled without any risk to health.

### TECHNICAL DATA

#### UNVULCANISED RUBBER

System	acetoxo
Density (ISO 1183)	1,02-1,03 g/cm <sup>3</sup>
Application temperature	+5 °C ... +40 °C
Extrusion rate	330 g/min
Skin-forming time (23 °C, 50 % RH)	max 30 min
Vulcanisation rate (23 °C, 50 % RH)	1,5 mm/24h

#### VULCANISED RUBBER

Temperature resistance	-65 °C ... +260 °C (+315°C)
Hardness (Shore A, ISO 868)	25
Modulus at 100 % elongation	0,49 MPa
Elongation at the break	115%
Tensile strength	0,55 MPa

### ESTIMATED CONSUMPTION

Number of linear meters per 300 ml cartridge

Sealant thickness (mm)	Joint width (mm)							
	3	4	6	8	10	12	15	20
4	25	18	13	10	7	6	5	3,5
5	20	15	10	7	6	5	4	3
6	17	13	8	6	5	4	3,25	2,25
8	13	10	6	3	4	3	2,4	1,75
10	10	8	5	4	3	2	2	1,5