

SilSo Connect 21000

Character

SilSo Connect 21000 is a non-corrosive, two-part, heat-curing silicone elastomer crosslinking through polyaddition. It does not corrode copper or its alloys. Particularly SilSo Connect 21000 stands out for its electric conductivity and robustness combined with good mechanical properties.

Technical Data

	SilSo Connect 21000	SilSo Connect 21000		
	Component A	Component B		
Colour	Black	Black		
Viscosity	71000	75000	mPa·s	Brookfield HBTD ¹
Density	1.1	1.1	g/cm ³	
Curing system	Addition			
Mixing ratio	1 : 1		According to weight	
Processing time at 23 °C	>24		h	
	Cured Material (1 h at 130 °C)			
Volume Resistivity	<10 ³		Ohm.cm	ASTM D-257
Surface Resistance	<10 ³		Ohm	
	Mechanical Properties			
Hardness Shore A	35		Shore A	DIN 53 505 ²
Tensile strength	1.9		N/mm ²	DIN 53 504 ¹
Elongation at break	240		%	DIN 53 504 in % ¹
Tear resistance	5.5		N/mm	ISO 34-1 ¹
The platinum catalyst is in component A				
¹ = Measured under standard climate DIN 50 014-23/50-2				
² = Vulcanisate, measured after 14 days of storage under standard climate DIN 50 014-23/50-2				

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Shelf Life/Storage

With a proper storage components A and B will hold for approx. 12 months. Store the products in closed original containers at temperatures below 30 °C and protected from frost.

Key-Properties

- Electrically conductive
- Non-Corrosive
- Heat-curing
- Low linear shrinkage

Application Technique

Processing

Both components A and B should be well stirred to ensure the material is uniform. Mix components A and B at a mass ratio of 1:1 thoroughly with a static mixer or with an electric or pneumatic stirrer at low speed to avoid an introduction of air. We recommend to cure the material at 100-130 °C for one hour. Crosslinking is slowed down by reducing the temperature and accelerated by increasing it. We recommend not to exceed 180°C.

Inhibited Curing

Certain substances may impair or even completely prevent the curing behaviour of addition crosslinking silicones. Typical indications are sticky surfaces between silicone gel and contact surfaces.

The following substances are particularly critical:

- substances containing nitrogen (amines, polyurethanes, epoxy resins ect.)
- substances containing sulphur (polysulphides, polysulphones, natural and synthetic rubbers (EPDM))
- organometal compounds (organotin compounds, vulcanisates and hardeners of condensation crosslinking silicones)

It is absolutely important to check the compatibility in preliminary tests if unknown substrates are used.

Safety

Please observe our EC safety data sheets and the safety remarks on our container labels when handling our products. The dangerous goods regulations and the accident prevention regulations of the professional associations must be particularly observed. Keep the EC safety data sheet of the applied product at hand since it provides you with useful instructions for the safe use and disposal of the product as well as for actions to be taken in case of accidents.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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CHT Germany GmbH

Post box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany

Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, Homepage: www.cht.com