## **TECHNICAL DATA SHEET**



## SilSo Cool 21005 2 part silicone gap filler

Description	Property	Test Method	Value
This is a two part, thermally conductive, thixotropic material,	Uncured Product		
which cures at room temperature or can be accelerated with heat. It is specifically formulated to give low hardness and resistance to	Appearance		Thixotropic paste
slump and features low and high temperature mechanical and	Color A		Blue
chemical stability. It remains flexible and has a natural low level	Color B		White
tack, ideal for applications where a strong mechanical or	Density A	BS ISO 2781	3.10
chemical bond is not required. It has a controlled volatile content	Density B	BS ISO 2781	3.06
and an easy mix ratio by volume or weight.	Extrusion Rate A Part		360 g/min
Key Features	Extrusion Rate B Part		333 g/min
<ul> <li>Thermally conductive</li> <li>Soft material to compensate for CTE mismatch</li> </ul>	Max Cure Mins @ 100 °C		30 mins
<ul> <li>Flame resistant</li> </ul>	Mix Ratio By Weight		1:1
Electrically insulating	Pot Life mins at 23°C/73°F		31 mins
Application	Specific Gravity A		3.10
TIM gap filler	Specific Gravity B		3.06
Use and Cure Information	Cured Product		
IMPORTANT:	24 hours at 23+/-2°C		
The 'A' part of product	CTE Volumetric ppm/°C		53 ppm/°C
contains the platinum catalyst; great care should be taken when	Color		Blue
using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the	Elongation at Break	ISO 37	50 %
dispensing equipment, as curing will result. If in doubt, it's	Hardness Shore 00	ASTM D 2240-95	•• ••
advised to thoroughly purge the equipment with a suitable	Linear Coefficient of Thermal		-
hydrocarbon solvent or silicone fluid.	Expansion (ppm/°C)		18 ppm/°C
Mixing	Max Working Temp		200 °C / 392 °F
This gap filler can be supplied in bulk containers for use with	Min Working Temp		-50 °C / -58 °F
automatic mixing equipment or in a twin cartridge system and static mixer to provide for easy application and mixing.	Tensile Strength	ISO 37	0.33 N/mm2 / 48 psi
Inhibition of Cure	Thermal Conductivity		3.68 W/mK
Great care must be taken when handling and mixing all addition	-		
cured silicone elastomer systems, ensuring that all the mixing	Electrical Properties		
tools (vessels and spatulas) are clean and constructed in	Dielectric Constant	ASTM D-150	7.55
materials which do not interfere with the curing mechanism. The	Dielectric Strength kV/mm	ASTM D-149	7.6 kV/mm / 193 V/mil
cure of the rubber can be inhibited by the presence of compounds	Dissipation Factor	ASTM D-150	0.0035
of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with	Volume Resistivity (Ohms	ASTM D-257	1.4E+13 ohms cm
materials containing certain of these substances e.g. moulding	cm)		
clays, sulphur vulcanised rubbers, condensation cure silicone	Storage		
rubbers, onion and garlic.	Max Storage Temperature		30 °C / 86 °F
Curing Conditions	Shelf Life		12 mths
The data offers a guide to the rate of cure at various			

temperatures, mixing of the components at temperatures between 15 and 25°C is recommended to ensure adequate pot life for degassing and handling. The pot life can be extended to several hours by chilling the components before mixing.

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

## Health & Safety

Health and Safety

Safety Data Sheets available on request.

## Packaging

CHT Gap Fillers are available in a variety packaging including bulk containers. Please contact our sales department for more information.

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