## **TECHNICAL DATA SHEET**



## SilSo Cool 21005 2 part silicone gap filler

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Description	Property	Test Method	Value
<ul> <li>This is a two part, thermally conductive, thixotropic material, which cures at room temperature or can be accelerated with heat. It is specifically formulated to give low hardness and resistance to slump and features low and high temperature mechanical and chemical stability. It remains flexible and has a natural low level tack, ideal for applications where a strong mechanical or chemical bond is not required. It has a controlled volatile content and an easy mix ratio by volume or weight.</li> <li>Key Features <ul> <li>Thermally conductive</li> <li>Soft material to compensate for CTE mismatch</li> <li>Flame resistant</li> <li>Electrically insulating</li> </ul> </li> </ul>	Uncured Product Appearance Color A Color B Density A Density B Extrusion Rate A Part Extrusion Rate B Part Max Cure Mins @ 100 °C Mix Ratio By Weight Pot Life mins at 23°C/73°F	Test Method BS ISO 2781 BS ISO 2781	Thixotropic paste Blue White 3.10 3.06 360 g/min 333 g/min 30 mins 1:1 31 mins
Application	Specific Gravity A		3.10
TIM gap filler	Specific Gravity B		3.06
Use and Cure Information	Cured Product		
<b>IMPORTANT:</b> The 'A' part of product contains the platinum catalyst; great care should be taken when using automatic dispensing equipment. Please ensure that it is not contaminated by residual hydride containing rubber in the dispensing equipment, as curing will result. If in doubt, it's advised to thoroughly purge the equipment with a suitable hydrocarbon solvent or silicone fluid.	24 hours at 23+/-2°C CTE Volumetric ppm/°C Color Elongation at Break Hardness Shore 00 Linear Coefficient of Thermal Expansion (ppm/°C)	ISO 37 ASTM D 2240-95	53 ppm/°C Blue 50 % 67 18 ppm/°C
Mixing	Max Working Temp		200 °C / 392 °F
This gap filler can be supplied in bulk containers for use with automatic mixing equipment or in a twin cartridge system and static mixer to provide for easy application and mixing. Inhibition of Cure	Min Working Temp Tensile Strength Thermal Conductivity	ISO 37	-50 °C / -58 °F 0.33 N/mm2 / 48 psi 3.68 W/mK
Great care must be taken when handling and mixing all addition	Electrical Properties		
cured silicone elastomer systems, ensuring that all the mixing tools (vessels and spatulas) are clean and constructed in materials which do not interfere with the curing mechanism. The	Electrical Properties CTI Dielectric Constant	IEC 60112:2009- 10 ASTM D-150	>600 Volts 7.55
cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts	Dielectric Constant	ASTIVI D-150	7.6 kV/mm / 193
and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding	Dielectric Strength kV/mm	ASTM D-149	V/mil
clays, sulphur vulcanised rubbers, condensation cure silicone	Dissipation Factor	ASTM D-150	0.0035
rubbers, onion and garlic. <i>Curing Conditions</i>	Volume Resistivity (Ohms cm)	ASTM D-257	1.4E+13 ohms cm
-	Storage		
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.	Max Storage Temperature Shelf Life		30 °C / 86 °F 12 mths
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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