

SE2010 SILCOTHERM 2 Part silicone gap filler

Introduction

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.

Key Features

- Thermally conductive
- UL94 V0 Approved
- Controlled volatile content
- Non slumping

Use and Cure Information

IMPORTANT:

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.

Mixing

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

Great care must be taken when handling and mixing all addition 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 cure of the rubber can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus and arsenic; organotin catalysts and PVC stabilizers; epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanised rubbers, condensation cure silicone rubbers, onion and garlic.

Curing Conditions

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.

Health and Safety

Safety Data Sheets available on request.

Packaging

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

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Property

Uncured product

Property	Test Method	Value
Appearance		Thixotropic Paste
Colour A Part		Pale grey
Colour B Part		Black
Cure Type		Addition
Max Cure Hrs @ 25 °C		5 hrs
Max Cure Mins @ 100 °C		2 mins
Mix Ratio		1:1
Pot Life mins		60 mins
Rheology		Paste
Self Bonding		No
Viscosity A-Part mPas	Brookfield	248000 mPas
Viscosity B-Part mPas	Brookfield	390000 mPas
Viscosity Mixed mPas	Brookfield	320000 mPas

Cured product

After 7 days cure at 23° +/-2° C and 50+/-5% humidity

CTE Linear ppm/°C		186 ppm/°C
CTE Volumetric ppm/°C		558 ppm/°C
Colour		Black
Duro Shore 00	ASTM D 2240-95	50
Linear Shrinkage %		0.1 %
Max Working Temp + °C	AFS_1540B	200 °C
Min Working Temp - °C		-60 °C
SG	BS ISO 2781	2.3
Thermal Conductivity W/mK		1.7 W/mK
UL 94V-0		Yes

Storage

Max storage temperature °C		25 °C
Shelf life		6 mths

Electrical properties

Dielectric Constant @ 1kHz	ASTM D-150	4.9
Dissipation Factor @ 1kHz	ASTM D-150	0.006
Volume Resistivity ohms cm	ASTM D-257	9.26E+12 ohms cm

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