

SE2010

Characterization

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

Technical Data

	SE2010 Component A	SE2010 Component B		
Colour	Pale grey	Black		
Viscosity	248,000	390,000	mPa·s	Brookfield HBTD
	Mixture			
Cure Type	Addition			
Rheology	Paste			
Self-bonding	No			
Mixing ratio	1:1		according to weight	
Mixed Viscosity	320,000		mPa·s	Brookfield HBTD
Colour	Black			
Pot Life	60		min	
Max Cure @ 25°C	5		h	
Max Cure @ 100°C	2		min	
Cured product	Afer 7 days at 23°C +/-2°C and 50% +/-5% humidity			
CTE Linear	186		ppm/°C	
CTE Volumetric	558		ppm/°C	
Duro Shore 00	50			ASTM D 2240-95

Working Temp.	-60 to 200	°C	AFS-1540B
Linear Shrinkage	0.1	%	
SG	2.3		BS ISO 2781
Thermal Conductivity	1.7	W/m*K	
UL 94V-0	Yes	ppm	
Electrical properties			
Dielectric Constant @ 1 kHz	4.9		ASTM D-150
Dissipation Factor @ 1kHz	0.006		ASTM D-150
Volume Resistivity	9.26E+12	Ohm*cm	ASTM D-257

Storability / Storage

With a proper storage the product will hold for approx. 6 months if stored properly below 25°C and protected from frost in a dry place in closed original containers.

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.

Application Technique

Application

IMPORTANT:

Component A of product contains the platinum catalyst; great care should be taken when using automatic dosing equipment. Please ensure that it is not contaminated by residual elastomers containing hydride as otherwise 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.

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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