

UniPutty 2000

Silicone Thermal Putty



UniPutty 2000 is a two part dispensing, thixotropic natured thermal putty that will cure at room temperature to form a compliant and low tack compound.

UniPutty 2000 is especially formulated to deliver high chemical and mechanical stability via its low hardness, no-pump out and controlled volatile content properties. UniPutty 2000 will cure at room temperature over a period of 5 hours, however this can be accelerated with heat. UniPutty 2000 has excellent thermal wet out properties by obviating air gaps between mating surfaces, thus reducing interfacial thermal resistance to a minimum.

Features

- Thixotropic, silicone thermal putty
- Thermal conductivity = 2.0 W/mK
- Low hardness and slump resistance formulation
- Cures at room temperature (23°C) to form a compliant compound, cure can be accelerated with heat

Availability and Storage

- Supplied in syringes and cartridges for manual, automatic and semi-automatic application
- Also available in containers
- Within original packaging shelf life is an expected 6 months below 30°C

General Properties

Property (unit)	Test Method	UniPutty 2000
Colour – combined parts	Visual	Dark Grey
Thermal Conductivity (W/mK)	ASTM D5470	2.0
Operating Temp. (°C)	In House	-65 to +200
Specific Gravity – both parts	ASTM D70	2.25
Viscosity Part A (mPas)	Brookfield	110,000
Viscosity Part B (mPas)	Brookfield	140,000

Benefits

- Thixotropic, viscous in nature
- Delivers low hardness and resistance to slump
- Post-cure putty provides vibration dampening and low pressure exertions onto devices and components
- Good thermal conductivity and thermal connection

Recommended Uses

- Cooling power devices within power converters
- Coupling PCBs to heatsinks or nearby metal work
- Cooling digital signal processing (DSP) units within computer applications

Mechanical Information (Post cure @ 60°C for 1 hour)

Property (unit)	Test Method	UniPutty 2000
Volume Resistivity ($\Omega \cdot \text{cm}$)	ASTM D2240	9.15×10^{12}
Hardness (Shore 00)	ASTM D2240	60
Flammability Rating	UL94	V-0



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