



產品資料

電子電器類使用 固定型矽酮膠

UB-510G

UB-510G是一種固定型單組分矽酮膠,能在室溫條件下與空氣中的水分接觸即可硫化成橡膠彈性體.此產品對許多材質有著良好的接著,對金屬,陶瓷,木材,塑膠及玻璃等均具有一定的粘結性.

主要特性:

- ◆對眾多基材有著良好的接著.
- ◆對基材無腐蝕(無銅及銅合金腐蝕).
- ◆耐冷熱性優良,可在-50~200°C溫度條件下使用.
- ◆良好的化學穩定性及耐候性.
- ◆白色膏狀物.
- ◆方便的單組分體系.
- ◆良好的電絕緣性能.
- ◆通過UL認證(File:E250719):UB-510G;UL94V-0;UL746 RTI Elec.105°C Mech.105°C.

應用:

- ◆電子及電器設備的粘接.
- ◆用於電子設備的防水.
- ◆金屬的密封膠粘劑,防止水份及灰塵的進入.
- ◆用於電子電器的絕緣,防震.
- ◆需耐冷,耐熱及阻燃設備的粘接及固定.



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典型性能數據

未硫化前性能	
外觀	白色膏狀物
表乾時間(25°C/50%RH) min	10
粘度	半流動型
硫化後性能(放置一周後,25°C/50%RH)	
固化速度	> 1.0mm/24h (與膠層厚度及空氣濕度有關)
外觀	橡膠彈性體
比重	1.64
硬度(邵氏A型)	60
拉伸強度 MPa	2.2
伸長率 %	80
剪切強度 MPa	2.1
體積電阻率 $\Omega \times \text{cm}$	3.0×10^{14}
介電強度 kv/mm	21
介電常數(1MHz)	3.5
損耗角正切值(1MHz)	0.03



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操作及安全

- ◆因為本產品在未固化前對皮膚及粘膜有刺激性,所以請不要長時間與皮膚接觸,操作前請戴好安全眼鏡及防護手套.避免進入眼內,不小心進入眼內的情況下,請立即用水清洗15分鐘以上,然後去醫院檢查.附著皮膚上時,請馬上用幹布等擦拭乾淨,然後用肥皂清洗.
- ◆對基材的表面應使用適當的溶劑進行徹底的清洗,如乙醇,二甲苯等,根據基材的不同,有必要塗布合適的底漆.
- ◆作業區域應持續保證良好的通風環境.
- ◆本產品為一般工業用途所開發的.
- ◆本產品固化時會釋放副產品乙醇蒸氣.

儲存

- ◆請儲存在乾燥涼爽之地,避免陽光直射.
- ◆請在嬰兒的手不能觸及的地方保管.

包裝

- ◆本產品採用300ml/2600ml 包裝管.



Product Data

For Electrical/Electronic use
One-component silicone RTV adhesive

UB-510G

UB-510G is an one-component RTV silicone elastomers;cure at room temperature with the moisture in the air.The product bonds to most materials;such as metals, ceramics, wood, plastics and glass,with excellent adhesion.

Key features

- ◆ Good adhesion to most common substrates
- ◆ Natural cure;no corrosion to the substrates(no corrosion to copper and copper alloys)
- ◆ Excellent high and low temperature resistance; from -50~200°C operation
- ◆ Excellent chemical resistant and weatherability
- ◆ White paste
- ◆ Easy-to-use one component system.
- ◆ Excellent electrical insulation properties.
- ◆ Recognized by UL(File:E250719):UB-510G;UL94V-0;UL746 RTI Elec.105°C Mech.105°C.

Applications

- ◆ The bonding for electrical and electronic appliances
- ◆ A waterproof adhesion for electrical equipments
- ◆ The adhesion for equipments to keep out water and dust
- ◆ Used for the insulation and shock absorption of equipments
- ◆ The bonding and fixation to the equipments which require cold and heat resistance and flame retardant



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Typical property data

Typical uncured properties	
Appearance	White paste
Tack-free time(25°C/50%RH) min	10
Viscosity	semi-flowable
Typical cured properties(a week,25°C/50%RH)	
Cured speed	> 1mm/24h (related with the depth and moisture)
Appearance	Elastic rubber
Specific gravity	1.64
Hardness(Type A)	60
Tensile strength MPa	2.2
Elongation %	80
Shear strength MPa	2.1
Volume resistivity Ω×cm	3.0×10^{14}
Dielectric strength Kv/mm	21
Dielectric constant(1MHz)	3.5
Dissipation factor(1MHz)	0.03



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Handling and safety

- ◆For the uncured products have irritation to the skin and eyes, please do not contact with skin for a long time. Wear safety glasses and protective glove before handling uncured adhesive. Avoid the entry of eyes, in case of the contact, please flush with water for at least 15 minutes immediately; and contact a physician. In case of skin contact, please clean with rag and etc, wash thoroughly with soap.
- ◆The substrate surface should be thoroughly cleaned with a suitable solvent such as alcohol, xylene and etc. According to the substrates variation, use suitable primer if needed.
- ◆Adequate ventilation should be maintained in the working area
- ◆The product is developed for industrial use.
- ◆This product releases ethanol vapors as the by-product of cure

Storage

- ◆Please store the products in a cool and dry place, avoid direct sunlight.
- ◆Please keep out of the reach of children.

Package

- ◆This products are packed by 300ml/2600ml cartridge.

物質安全資料表

MSDS編碼: **UBMS510G**

生效日期: 2010-1-1

產品名稱: 單組分矽酮膠

頁碼: 1/8

一、化學產品及公司資訊/CHEMICAL PRODUCT AND COMPANY INFORMATION

產品名稱: **UB-510G RTV**

Product name: **UB-510G RTV**

製造商: 東莞優邦材料科技有限公司

Manufacturer: U-BOND MATERIAL TECHNOLOGICAL CO.,LTD.

地址: 廣東省東莞市大嶺山鎮大塘工業區水瀝路 郵遞區號/Post code: 523820

Address: Shuill Road, Datang Village, Dalingshang Town, Dongguan City, GD.

電話/Tel: 86-769-85609382, 85609383, 85787409, 85787419

傳真/Fax: 86-769-85609381

生效日期/Effective date: 2010-1-1

化學名稱: 單組分室溫硫化矽橡膠

Chemical name: 1-component silicone RTV adhesieve

二、化學組成/CHEMICAL COMPOSITION

2.1 物理狀態/physical form: 膏狀/Paste

2.2 顏色/color: 白/White

2.3 化學組分/chemical composition

物質成份	百分含量/%	環境有害物質	暴露容許濃度
Ingredient	Percent	ROHS	Exposure Limits
a,w-二羟基二甲基矽氧烷	20-30%	ND	不適用
填料	1-10%	ND	不適用
導熱材料	50-60%	ND	不適用
偶聯劑	0-1%	ND	不適用
固化劑	1-10%	ND	不適用
阻燃劑	1-10%	ND	不適用

備註: UB-510G不含有RoHS指令六大管控物質及REACH指令高度关注物质。

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三、危險性概述/HAZARD IDENTIFICATION

3.1危險性信息:	如被吸入是有害的。 避免接觸皮膚及眼睛。 發生火災和/或爆炸時，不得吸入煙霧。 僅在通風良好的環境下作業。
Hazard information	If inhaled ,it will be harmful. Avoid contacting with eyes and skin. Do not inhale smog when fire and/or explosion appears.
3.2暴露途徑:	呼吸進入，吞食，皮膚接觸
Routes of exposure:	Inhalation,Ingestion, Skin contact.
3.3健康危害/Health effects	
眼睛:	直接接觸可能引起輕微的刺激。
皮膚:	短時間暴露不會有重大影響,皮膚反復接觸可能引起刺激。
吸入:	對呼吸係數有輕微的刺激，過分吸入煙霧可能會引起嗜睡感。
食入:	食入危害健康。
Eye:	Directly contacting may cause slightly irritation.
Skin:	Short time exposure won't cause severe influence, repeatly contacting may cause irritation.
Inhalation:	Cause slightly irritation to the respiratory system, excessively inhalation of smog may cause sleeping
Ingestion:	Ingestion will affects health.



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四、急救措施/First Aid Measures

4.1眼睛:	立即用水沖洗15分鐘。
Eyes:	Immediately flush with water for at least 15minutes
4.2皮膚:	毋需急救。
Skin:	First aid is not needed.
4.3吸入:	移至新鮮空氣處, 假如症狀持續應就醫處理。
Inhalation:	Remove to fresh air firstly,if the symptoms persists,get medical attention.
4.4食入:	就醫處理。
Ingestion:	Get the medical attention.

五、消防措施/Fire Fighting Measures

1.燃燒性:	不燃。
Flammability:	Fire retardation.
2.閃點:	不適用。
Flash point:	unsuitable.
3.引燃溫度:	無數據。
Ignition Temperature:	No data.
4.爆炸極限:	無數據。
Explosion Limitation:	No data.
5.危險特性:	無。
Dazard charateristic	None.
6.滅火方法:	乾粉, 泡沫和二氧化碳滅火器。
xtinguishing measure	Dry chemical,Foam and CO2 fire extinguisher.



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六、洩漏應急處理/Accidental release measures

6.1個人防護注意事項: 避免眼睛接觸, 避免吸入氣霧, 保持容器密封。

Attention to personal protection: Avoid eye contact, avoid inhaling smog and keep the container sealed well.

6.2環境保護注意事項: 不允許大量地進入排水系統或水面。

Attention to environmental protection: The entry into drainage system or water is prohibited.

6.3洩漏應急處理: 關閉洩漏源, 不可直接接觸洩漏物品, 用幹布或其他物品清理, 置於廢物處理箱中。

Accidental release measures: Close the leaking resources, do not contact the leaking material directly, sweep up with rag or other material and place in the container for disposal.

七、操作處置與貯存/Handling and storage

7.1操作: 穿戴好防護工具, 配置良好的通風設備, 避免眼睛接觸, 避免吸入氣霧, 保持容器密封。施行良好的工業衛生措施, 請於操作後進行清洗, 尤其在飲食或吸煙前。

Handling: Wear protective equipment, equip with well ventilating appliances. Avoid eye contact; avoid inhaling smog and keep the container sealed well. Satisfactory industrial hygiene should come into operation, please clean thoroughly after handling especially before eating and smoking.

7.2儲存: 需謹慎小心, 遠離氧化性物料儲存。保持容器密封, 儲存時應避免水或濕氣。

Storage: Take care, stay away from oxidability material. keep the container sealed well, avoid water or moisture.

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八、接觸控制及個體防護/Exposure control and personal protection

- 8.1 工程控制: 配置通風設備或其他辦法來控制空氣中蒸氣的濃度低於標準值, 保證工作地點的附近配有洗眼設備和淋浴設備。
- Engineering controls: Provided with ventilated appliance or other methods below the criterion value. Ensure that eyewash equipment and safety showers are proximal to the work location.
- 8.2 常規操作的個人防護設備/The personal protective appliances for generally handling
呼吸系統防護: 當通風設施不能有效降低作業區的煙霧濃度時, 應使用符合標準的口罩或防毒面具。
- Respiratory system protection: When ventilating appliance is not effective to decrease the concentration of smog in the work area, a standard respirator or gas mask should be used.
- 眼睛防護: 使用適當的防護-安全眼鏡是最起碼的要求。
- eye protection: Use suitable protection-the safety glasses is elementary requirement.
- 手防護: 毋需特別防護。
- Hand protection: Special protection is not needed.
- 皮膚防護: 進餐和下班時清洗是充分的。
- Skin protection: Cleaning thoroughly before lunch and off duty should be sufficient.
- 個人衛生措施: 施行良好工業衛生措施, 請於操作後進行清洗, 尤其是在飲食或抽煙之前。
- Personal hygiene measures: Satisfactory industrial hygiene measures should come into operation, please cleaning after handling, especially before the eating or smoking.

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九、理化特性/Physical and chemical properites

- 9.1物理形態/physical state: 膏狀物/paste
- 9.2顏色/color 白色 White
- 9.3氣味/odor 輕微的氣味/slight odor
- 9.4比重/specific gravity: 1.64
- 9.5PH 值/PH value: 無數據/no data
- 9.6沸點/Boil: 無數據/no data
- 9.7熔點/melting point 無數據/no data
- 9.8閃點/flash point: 無數據/no data
- 9.9引燃溫度Ignition temperature: 無數據/no data
- 9.10爆炸性/explosivity : 否/no
- 9.11氧化性/oxidability 否/no
- 9.12蒸氣壓(25°C)/vapour pressure: 無數據/no data
- 9.13相對蒸氣壓relative vapour pressure:無數據/no data
- 9.14粘度/viscosity: 無數據/no data
- 9.15分子量/molecular weight: 未評估/unevaluated

十、化學反應特性/Chemical reactive property

- 10.1穩定性/stability: 穩定/stable.
- 10.2反應性/reactivity 避免接觸的條件: 無.
- Conditions should be avoided none.
- 不相容物: 可與強氧化劑發生反應, 水, 濕氣可引起危害性氣霧的形成。
- Incompatibility: Can react with strong oxidizer, water, moisture can arose hazardous smog.
- 有害聚合物: 無.
- Hazardous polymerization: None.

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十一、毒理學資料/Toxicological information

11.1健康危害:	參閱章節3.3
Health effects:	Refer to paragraph 3.3
11.2致敏性:	未知.
Sensitization:	Not known.
11.3致突變性:	未知.
Mutagenicity:	Not known.
11.4致癌性:	未知.
Carcinogenicity:	Not known.
11.5其他健康危害資訊:	無適合的資料
Other health hazardous information:	No suitable data.

十二、生態學資料/Ecological information

12.1生態毒性:	不適用.
Ecotoxicity:	Not suitable.
12.2生物降解性:	不適用.
Biodegradable:	Not suitable.
12.3生物積累性:	無生物積累能力
Bio-accumulation:	No bio-accumulation.

十三、廢棄處理/Waste disposal

13.1產品廢棄物處置方法:	按照法規進行廢棄處理
Product disposal methods:	Operated the product disposal according to the statute.
13.2包裝廢棄物處置方法:	按照法規進行廢棄處理
Package disposal methods:	Operated the product disposal according to the statute.

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十四、運輸資訊/Transportation information

14.1公路和鐵路運輸: 不受限制。

Road and railway transportation: Not limited.

14.2 海運: 不屬IMDG編碼

IMDG Not belong to IMDG coding

14.3空運 不屬IATA規定

IATA Not belong to IATA regulate.

十五、法規資訊/Regulation information

15.1適用法規: 危險物及有害物通識規則

Statute available: The dangerous substance and detrimental substance
general regulation.

十六、其他資訊/other information

聯絡處: 東莞優邦材料科技有限公司

Liaison office: U-BOND MATERIAL TECHNOLOGICAL CO.,LTD.