

Dow Corning Silicone Trading (Shanghai) Co., Ltd.
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Version No. 2.1
Revision Date: 02.02.2009

DOW CORNING(R) 732 MULTI-PURPOSE SEALANT, WHITE

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

- 1.1 **Product Name:** DOW CORNING(R) 732 MULTI-PURPOSE SEALANT, WHITE
- 1.2 **Manufacturer's Product Code:** 01890581
- 1.3 **Chemical Classification:** Silicone elastomer
- 1.4 **Dangerous Goods Classification:** Not applicable.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
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2. COMPOSITION / INFORMATION ON INGREDIENTS

- 2.1 **Chemical characterization:** Mixture
- 2.2 **Physical Form:** Paste
- 2.3 **Color:** White
- 2.4 **Use:** Sealant and adhesive
- 2.5 **Hazardous Ingredients*:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	<u>Symbols & Health Risk Phrases</u>
Methyltriacetoxysilane	4253-34-3	<10	Harmful. Corrosive. Reacts violently with water. Harmful if swallowed. Causes burns.
Ethyltriacetoxysilane	17689-77-9	<10	Harmful. Corrosive. Reacts violently with water. Harmful if swallowed. Causes burns.

*According to European Commission Directive 1999/45/EC (Article 3 [3])

3. HAZARDS IDENTIFICATION

- 3.1 **Overall Hazard Classification:** Not hazardous.
- 3.2 **Hazard Information:** Not hazardous.
Avoid contact with skin and eyes.
Use only in well-ventilated areas.
- 3.3 **Route of Exposure:** Skin contact and accidental ingestion.

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3.4 Possible Health Effects:

Acute

Eyes: Direct contact may cause moderate irritation.
Skin: May cause moderate irritation.
Inhalation: Irritates respiratory passages very slightly.
Ingestion: Low ingestion hazard in normal use.

Chronic

Skin: No known applicable information.
Inhalation: No known applicable information.
Ingestion: Repeated ingestion or swallowing large amounts may injure internally.

3.5 Signs and Symptoms of Overexposure: No significant adverse effects from a single exposure expected from normal use.

4. FIRST AID MEASURES

4.1 Eyes: Immediately flush with water for 15 minutes. Get medical attention.
4.2 Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
4.3 Inhalation: No first aid should be needed.
4.4 Ingestion: Get medical attention.
4.5 Comments: Treat according to person's condition and specifics of exposure.
4.6 Note to physicians: Treat symptomatically. For further information, the medical practitioner should contact Dow Corning Silicone Trading (Shanghai) Co., Ltd.

5. FIRE FIGHTING MEASURES

5.1 Flammability: Non-flammable.
5.2 Flash Point: Not applicable.
5.3 Autoignition temperature: Not determined.
5.4 Lower Flammability Limit: Not determined.
5.5 Upper Flammability Limit: Not determined.
5.6 Hazardous Properties: None.
5.7 Extinguishing Media: On large fires use dry chemical or foam. On small fires use CO2 or dry chemical. Water can be used to cool fire exposed containers.
5.8 Special Fire Fighting Procedures and Equipment: Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
5.9 Hazardous Combustion Products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Metal oxides. Formaldehyde.
5.10 Unsuitable Extinguishing Media: Water. Do not allow extinguishing medium to contact container contents.

6. ACCIDENTAL RELEASE MEASURES

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- 6.1 Personal Precautions:** Avoid skin and eye contact. Do not take internally.
- 6.2 Environmental Precautions:** Do not allow large quantities to enter drains or surface waters.
- 6.3 Methods for Cleaning up:** Observe all personal protective equipment recommendations described in this MSDS. If diked material can be pumped, store recovered material in appropriate container. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which laws and regulations are applicable.

7. HANDLING AND STORAGE

- 7.1 Handling Precautions:** Use with adequate ventilation. Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc exposures within exposure guidelines or use respiratory protection. Avoid skin and eye contact. Do not take internally. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 7.2 Storage Conditions:** Use reasonable care and store away from oxidizing materials. Keep container closed and store away from water or moisture.
- 7.3 Unsuitable Packaging Materials:** None established.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Industrial Hygiene Standards:

<u>Ingredients</u>	<u>CAS No.</u>	<u>Exposure Limits</u>
Methyltriacetoxysilane	4253-34-3	See acetic acid comments.
Ethyltriacetoxysilane	17689-77-9	See acetic acid comments.

Acetic acid is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

8.2 Engineering Controls

Local Ventilation: None should be needed.
General Ventilation: Recommended.

8.3 Personal Protective Equipment for Routine Handling

Respiratory protection: No respiratory protection should be needed.
Suitable Respirator: None should be needed.

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Eye protection:	Use chemical worker's goggles.
Hand protection:	Chemical protective gloves should be worn.
Skin protection:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Hygiene Measures:	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

8.4 Personal Protective Equipment for Spills

Respiratory protection:	No respiratory protection should be needed.
Eye protection:	Use chemical worker's goggles.
Skin protection:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Precautionary Measures:	Avoid skin and eye contact. Do not take internally. Use reasonable care.
Comments:	Product evolves acetic acid (HOAc) when exposed to water or humid air. Provide ventilation during use to control HOAc exposures within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical Form:	Paste
9.2 Color:	White
9.3 Odor:	Acetic acid odor
9.4 pH:	Not determined.
9.5 Solubility in Water:	Not determined.
9.6 Boiling Point:	Not determined.
9.7 Melting Point:	Not determined.
9.8 Flash Point:	Not applicable.
9.9 Autoignition temperature:	Not determined.
9.10 Explosive properties:	No
9.11 Oxidizing properties:	No
9.12 Vapor Pressure @ 25°C:	Not determined.
9.13 Specific Gravity:	1.04
9.14 Octanol/water partition coefficient:	Not determined.
9.15 Vapour Density (air=1):	Not determined.
9.16 Viscosity:	Not determined.
9.17 Molecular Weight:	Not determined.

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The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

10.1 Stability: Stable.

10.2 Reactivity

Conditions to Avoid: None.

Materials to Avoid: Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.

Hazardous Decomposition Products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.

Products: Metal oxides. Formaldehyde.

Hazardous Polymerization: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

- 11.1 Possible Health Effects: Refer to Section 3.4
11.2 Sensitizing Effects: None known.
11.3 Mutagenic Effects: None known.
11.4 Reproductive Effects: None known.
11.5 Carcinogenic Effects: None known.
11.6 Other Health Hazard Information: No known applicable information.

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The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

12. ECOLOGICAL INFORMATION

12.1 Environmental Fate and Distribution:

Solid material, insoluble in water. No adverse effects are predicted.

12.2 Environmental Effects:

No adverse effects on aquatic organisms are predicted.

Bioaccumulation: No bioaccumulation potential.

12.3 Fate and Effects in Waste Water Treatment Plants:

No adverse effects on bacteria are predicted.

13. DISPOSAL CONSIDERATIONS

13.1 Product Disposal: Dispose of in accordance with local regulations.

13.2 Packaging Disposal: Dispose of in accordance with local regulations.

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14. TRANSPORT INFORMATION

14.1 Road and Rail Transport:

Not applicable.

14.2 Sea Transport (IMDG):

Not subject to IMDG code.

14.3 Air Transport (IATA):

Not subject to IATA regulations.

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15. REGULATORY INFORMATION

15.1 Applicable Laws:

Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace, particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.

15.2 Chemical Inventories:

EINECS:	All ingredients listed or exempt.
TSCA:	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.
AICS:	All ingredients listed or exempt.
IECSC:	All ingredients listed or exempt.
MITI:	All components are listed on ENCS or its exempt rule.
KECL:	All ingredients listed, exempt or notified.
DSL:	All chemical substances in this material are included on or exempted from the DSL.
HSNO:	All ingredients listed or exempt.
PICCS:	Not determined.

16. OTHER INFORMATION

Contact Point: Technical Information Center (86 21)37747110
Prepared by: Dow Corning Silicone Trading (Shanghai) Co., Ltd.

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

道康宁® 732 多用途密封剂

通用硅酮粘接剂/密封剂（指定）

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特性

- 单组分粘接/密封剂
- 当暴露在潮湿空气中时，在室温下就可以固化
- 乙酸基固化体系
- 非流动性，糊状物
- 使用方便
- 固化为韧性的弹性橡胶
- 对许多底材都有很好的粘接性
- 从 -60°C (-76°F) 到 +180°C (356°F) 之间稳定且有弹性，短时间可耐 +205°C (401°F) 高温
- 黑色系：在 -60°C (-76°F) 到 +205°C (401°F) 之间稳定且有弹性，短时间峰值可达 +230°C (446°F)
- 优良的绝缘性质
- 符合 MIL-A-46106 要求
- 符合 FDA 177.2600 要求
- 产品为白色、黑色或透明

应用

- 作为一般的工业用密封与连接应用
- 符合 MIL-A-4610 和 FDA 177.2600 要求

典型物性

规格制订者：该数值不用于规格制订，制订本产品规格前，请联络您当地的道康宁销售办事处。

CTM*	ASTM*	性质	单位	数值
		供货时		
0176		外观		无凹陷膏
		颜色		白色、黑色或透明
0364		挤出速率 ¹	克/分钟	350
0098		结皮时间	分钟	7
0095		指干时间	分钟	20
		机械性能，在空气中温度为 25°C (77°F) 且相对湿度为 50% 时 7 天固化		
0097B	D1475	比重		1.04
0099	D2240	硬度，肖氏		25
0137A	D412	拉伸强度	MPa	2.3
0137A	D412	断裂伸长率	%	540
0420		体积热膨胀系数	1/K	1.12x10 ⁻³
		在 25°C (77°F) 及 50% 相对湿度下固化7天后，电气性能		
0114	D149	介电强度	kV/mm	21.6
0112	D150	介电常数，100Hz/100kHz		2.8
0112	D150	损耗因子，100Hz/100kHz		0.0015
0112	D150	体积电阻率	Ohm.cm	1.5x10 ¹⁵

1. 挤出率：0.62MPa 时管口径为 3.2mm。

* CTM：公司测试方法，CTM复印本可索取。

ASTM：美国实验与材料学会。

应用方法

底材处理

所有表面都必须进行清洗与干燥。
除油并且洗掉所有可能影响粘接能力的污染物，适用的清洗溶剂包括：异丙醇、丙酮和甲乙酮。

在许多底材，例如玻璃、金属和大多数的工程塑料上不用打底处理都可以粘接，但是对通常粘结效果不好的材料如 PTFE、聚乙烯、聚丙烯和其它一些类似的材料上要做打底处理。

如果要达到最佳的粘接效果，推荐使用道康宁® 1200 OS 预处理剂，经过溶剂清洗之后，用浸涂、刷涂或喷涂的方法涂敷一薄层的道康宁 1200 OS 预处理剂，让预处理剂在室温下、相对湿度等于或大于 50% 时干燥 15 到 90 分钟。

如何使用

在一个处理好了的表面上涂好了道康宁 732 多功能密封剂之后,马上将另一块要粘接的底材粘上去。

刚涂上的材料如果暴露在潮湿空气中会有慢慢结皮现象发生,任何加工都应该在这层结皮形成之前完成。其表面可以很容易的用刮刀加工。这层粘接/密封剂可以在 45 分钟内达到表干状态。

固化时间

表皮形成后,就开始从表面向内部发生固化。24 小时后(室温,50%的相对湿度),道康宁 732 多功能密封剂的固化深度就会达到 3mm。很深的部分,尤其是不容易接触到湿气的地方需要更长的时间才能固化完全,在湿度较低时,固化时间会相对延长。

在使用或包装粘接好的部件时,用户最好能等足够长的时间以确保粘接部分固化完全,这与很多影响因素有关,用户应视具体情况而定。

相容性

道康宁 732 多功能密封剂在固化过程中会释放少量的醋酸,可能会腐蚀一些金属部件或者底材,尤其是在与材料直接接触或者在一个不能让固化产生的副产物释放出去的封闭环境中进行固化时。

操作注意事项

本资料不包括安全使用本产品所需的安全信息。搬动前,请阅读产品及其安全数据表以及容器标签,以获取有关产品的安全使用、危害身体及健康的资料。可从道康宁公司的网站 www.dowcorning.com 上查阅产品的安全数据表,也可以从当地的道康宁销售代表或经销商处索取,或致电道康宁公司全球办事处。

储存与有效期

在 32°C (90°F) 以下未开封保存时,产品自生产之日起保质期为 27 个月。

因为道康宁 732 多功能密封剂是由于与空气中的水蒸气发生反应而固化,所以在不使用时一定要牢固地密封保存。在储存时容器的顶端可

能会形成由废料组成的塞状物,这个塞状物很容易去掉,且不影响剩余材料的质量。

包装

该产品有不同的包装规格。请与当地的道康宁销售代表联系,查询你所在地区产品的包装规格。

使用限制

本产品未被测试或陈述为适用于医用或药用。

健康和环境信息

为帮助用户安全使用产品,道康宁公司设立了严格的产品服务组织及一组环保、卫生及安全专家来服务客户。

有关详情,请访问我们的网站 www.dowcorning.com 或咨询您当地的道康宁代表。

有限保证信息—请仔细阅读

此处提供的信息是真实的而且是准确的。然而,由于使用本公司产品的条件和方法非我们所能控制,本信息不得用于替代确保道康宁产品特定最终用途的安全、有效和完全满意性的客户测试。我们所提供的使用建议不得被当作侵犯任何专利权的导因。

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您对道康宁违反担保能获得的唯一补救仅限于退还购货价款或替换不符合担保的任何产品。

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