

道康宁(上海)有限公司

物质安全资料表

中国上海松江工业开发区东区大道 448 号
电 话: (86 21) 57741161 传真: (86 21) 57741162

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

一、化学品及企业识别

- 1.1 产品名称: DOW CORNING(R) 732 MULTI-PURPOSE SEALANT, WHITE
- 1.2 制造商的产品代码: 01890581
- 1.3 化学品分类: 硅酮弹性体
- 1.4 危险货物分类: 不适用。
- 1.5 公司介绍:
- 制造商/供应商名称: 道康宁(上海)有限公司
- 地址: 中国上海松江工业开发区东区大道 448 号
- 电话: (86 21) 57741161 传真电话: (86 21) 57741162
- 应急电话: (86 21) 57741161
- 联络人: 环境、健康和安全管理部

二、成分/组成信息

- 2.1 化学类别: 混合物
- 2.2 物理形态: 糊状物
- 2.3 颜色: 白色
- 2.4 主要用途: 密封剂和胶粘剂
- 2.5 危险组分*:

化学品名称	CAS 编号	% (w/w)	符号& 健康危险术语
甲基三乙氧基硅烷	4253-34-3	<10	有害的。 腐蚀性的。 与水发生强烈的反应。 如被吞下是有害的。 引起灼烧。
乙基三乙氧基硅烷	17689-77-9	<10	有害的。 腐蚀性的。 与水发生强烈的反应。 如被吞下是有害的。 引起灼烧。

*依据欧洲 European Commission Directive 1999/45/EC (Article 3 [3])

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三、危险性鉴别

- 3.1 危险性类别: 无危害性。
- 3.2 危险性信息: 无危害性。
避免接触皮肤及眼睛。
仅可在通风良好处使用。
- 3.3 暴露途径: 皮肤接触 和意外吞食。
- 3.4 健康危害:
- 急性影响**
- 眼睛: 直接接触可能引起中等程度的刺激。
- 皮肤: 可能引起中等程度的刺激。
- 吸入: 对呼吸系统有轻微的刺激。
- 食入: 正常使用时只具很低的摄入危害。
- 慢性影响**
- 皮肤: 无适合的资料。
- 吸入: 无适合的资料。
- 食入: 反复摄入或吞咽大量可能造成内部伤害。
- 3.5 过分接触的影响和症状: 正常使用状态下, 单次暴露并不会产生危害影响。

四、急救措施

- 4.1 眼睛: 立即用水冲洗15分钟, 并就医处理。
- 4.2 皮肤: 从皮肤上抹去并用肥皂和水或无水洗液彻底清洗。如果刺激症状或其它症状产生且持续不消失时, 就医处理。
- 4.3 吸入: 毋需急救。
- 4.4 食入: 就医处理。
- 4.5 注释: 根据患者的状况及具体的暴露处理。
- 4.6 对医生的提示: 对症治疗。如果您想进一步地了解信息, 请与道康宁(上海)有限公司联络。

五、消防措施

- 5.1 燃烧性: 不燃。

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5.2	闪点:	不适用。
5.3	引燃温度:	未测定。
5.4	爆炸下限:	未测定。
5.5	爆炸上限:	未测定。
5.6	危险特性:	无。
5.7	灭火剂:	大火时使用干化学物品、泡沫或水雾。小火时使用二氧化碳、干化学物品或水雾。可以水冷却暴露于火灾中的容器。
5.8	特殊的灭火程序和设备:	根据当地紧急计划, 决定是否需要撤离或隔离该区域。用水冷却受火灾影响的容器。扑灭涉及化学物品的大火时, 应佩戴自给式呼吸器及防护衣物。
5.9	有害的燃烧产物:	二氧化碳及微量的未完全燃烧的碳化物。二氧化硅。金属氧化物。甲醛。
5.10	禁止使用的灭火剂:	未确定。

六、泄漏应急处理

6.1	个人防护注意事项:	避免接触皮肤及眼睛。不可内服。
6.2	环境保护注意事项:	不允许大量地进入排水系统或水面。
6.3	消除方法:	遵守在本物质安全资料表中所列的所有个人防护设备使用建议。假如围堵的物品可以被吸起, 应将其装入合适的容器内。抹去或铲起并装入容器内, 以使回收利用或废弃。适当清理泄漏区域, 因为有些硅酮物品即使在很少量时也会产生滑腻危害。要求使用蒸汽、溶剂或清洁剂作最终清理。适当处理浸透饱和的吸收剂或清洁物品, 因为其可能产生自热。有关法律规定可能适用于本物品的泄漏与释放, 同样也适用于用来清理泄漏的材料物品。您需要确定较合适的法律法规。

七、操作处置与储存

7.1	操作注意事项:	使用充分的通风排气设备。产品暴露于水或湿空气时, 会释放出乙酸(HOAc)。使用时应提供通风排气设备, 将乙酸(HOAc)控制在标准范围内或使用呼吸防护设备。避免接触皮肤及眼睛。不可内服。施行良好工业卫生措施, 请于操作后进行清洗, 尤其是在饮食或抽烟之前。
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- 7.2 **储存注意事项:** 需谨慎小心, 远离氧化性物料储存。保持容器密封, 储存时避免水或湿气。
- 7.3 **不适合的包装材料:** 未确定。

八、接触控制/个体防护

8.1 工业卫生标准:

组分	CAS 编号	接触极限
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甲基三乙氧基硅烷	4253-34-3	见乙酸注释。
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乙基三乙氧基硅烷	17689-77-9	见乙酸注释。
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当接触到水或湿空气时将形成乙酸。应提供充分的通风排气设备, 将暴露控制在 OSHA PEL: TWA 10 ppm 及 ACGIH TLV: TWA 10 ppm, STEL 15 ppm。

8.2 工程控制

局部通风设备: 毋需使用。

普通通风设备: 建议使用。

8.3 常规操作的个人防护设备

呼吸系统防护: 不需要使用呼吸防护设备。

使用适当的呼吸器: 毋需使用。

眼睛防护: 使用化学安全护目镜。

手防护: 应佩戴化学防护手套。

皮肤防护: 进食和班结束时进行冲洗。尽可能快地去除被污染的衣物和鞋子, 在下次使用前需要进行充分清洗; 推荐使用化学防护手套。

个人卫生措施: 施行良好工业卫生措施, 请于操作后进行清洗, 尤其是在饮食或抽烟之前。

8.4 泄漏的个人防护设备

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呼吸系统防护:	不需要使用呼吸防护设备。
眼睛防护:	使用化学安全护目镜。
皮肤防护:	进食和班结束时进行冲洗。尽可能快地去除被污染的衣物和鞋子,在下次使用前需要进行充分清洗;推荐使用化学防护手套。
预防措施:	避免接触皮肤及眼睛。不可内服。采取适度的防护。
注释:	产品暴露于水或湿空气时,会释放出乙酸(HOAc)。使用时应提供通风排气设备,将乙酸(HOAc)控制在标准范围内或使用呼吸防护设备。
备注:	这些操作注意事项都是基于常温常规操作。如果在高温使用或以气溶胶状态被使用时,需遵守其他的注意事项。

九、理化性质

9.1	物理形态:	糊状物
9.2	颜色:	白色
9.3	气味:	乙酸气味
9.4	pH 值:	未测定。
9.5	溶解性:	未测定。
9.6	沸点:	未测定。
9.7	熔点:	未测定。
9.8	闪点:	不适用。
9.9	引燃温度:	未测定。
9.10	爆炸性:	否
9.11	氧化性:	否
9.12	蒸气压 (25℃):	未测定。
9.13	比重:	1.04
9.14	辛醇/水分配系数:	未测定。
9.15	相对蒸气压 (空气=1):	未测定。
9.16	粘度:	未测定。
9.17	分子量:	未测定。

以上资料仅供参考,如果要准备产品资料,请与道康宁公司联络。

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十、稳定性和反应性

- 10.1 稳定性:** 稳定的。
- 10.2 反应性**
- 避免接触的条件:** 无。
- 禁配物:** 可与强氧化剂发生反应。水、湿气或湿空气可引起危害性气雾的形成。
- 分解产物:** 二氧化碳及微量的未完全燃烧的碳化物。二氧化硅。金属氧化物。甲醛。
- 聚合危害:** 不会产生危害的聚合反应。

十一、毒理学资料

- 11.1 健康危害:** 参阅章节 3.4。
- 11.2 致敏性:** 未知。
- 11.3 致突变性:** 未知。
- 11.4 致生殖遗传性:** 未知。
- 11.5 致癌性:** 未知。
- 11.6 其它健康危害信息:** 无适合的资料。

以上所列举的潜在的危害是建立对产品或类似产品的组分研究所得数据或专家对产品的评审的基础上。

十二、生态学资料

- 12.1 环境影响及其分布:**
- 固体物品, 不能溶解于水中。不能预示的有害影响。
- 12.2 环境影响:**
- 不能预示对水生有机体的有害影响。
- 生物积累性:** 无生物累积能力。
- 12.3 对废水处理厂的影响:**
- 不能预示对细菌的有害影响。

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十三、废弃处置

- 13.1 产品废弃物处置方法: 按照当地法规进行废弃处理。
- 13.2 包装废弃物处置方法: 按照当地法规进行废弃处理。

十四、运输信息

- 14.1 公路和铁路运输:
不适用。
- 14.2 海运 (IMDG):
不属 IMDG 编码。
- 14.3 空运 (IATA):
不属 IATA 规定。

十五、法规信息

- 15.1 适用法规:
工作场所安全使用化学品规定 [(1996) 劳部发 423 号], 针对化学危险品的安全使用、生产、储存、运输、装卸等方面均作了相应规定。
- 15.2 化学品库存:
- | | |
|---------|--|
| KECL: | 所有成份均被列出、予以免除或公告。 |
| MITI: | 所有组成份均列入 ENCS 或它的免除规定中。 |
| TSCA: | 本物品中的所有化学成分都被列入 TSCA 化学物质目录或获得 TSCA 化学物质目录的豁免。 |
| IECSC: | 所有组成份均列出或予以免除。 |
| AICS: | 所有组成份均列出或予以免除。 |
| DSL: | 本物品中的所有化学成分都被列入 DSL 化学物质目录或获得 DSL 化学物质目录的豁免。 |
| EINECS: | 所有组成份均列出或予以免除。 |
| PICCS: | 未测定。 |

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DOW CORNING(R) 732 MULTI-PURPOSE SEALANT, WHITE**十六、其他信息**

联络处: 技术服务工程师 (86 21) 57741161
制作者: 道康宁(上海)有限公司

这个资料不是产品说明书, 而是为了提供有代表性价值的概念。这里没有担保、表白或暗示。推荐的工业卫生和安全处理程序相信已基本适用。然而, 每位用户应于使用前审阅此产品预定使用方式的建议并决定是否适用。

(R) 意指注册商标

**Dow Corning Silicone Trading (Shanghai) Co., Ltd.
Material Safety Data Sheet**Page No.: 1/6
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.
- 1.5 Company Details:**
- Manufacturer/Supplier:** Dow Corning Silicone Trading (Shanghai) Co., Ltd.
Address: No.268, De Lin Road, WaiGaoQiao Free Trade Zone, Shanghai 200131, China
Telephone Number: (86 21)37747110 **Fax Number:** (86 21) 57741162
Emergency Telephone Number: (86 21) 37741000
Contact Person: Environment, Health and Safety Manager

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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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 cleanup 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. 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.

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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Not applicable.

14.2 Sea Transport (IMDG):

Not subject to IMDG code.

14.3 Air Transport (IATA):

Not subject to IATA regulations.

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）

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、金属和绝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, 固化时间会相对应延长。

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。

道康宁的唯一担保是产品满足发货时的道康宁销售规格。

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。

特别的, 道康宁不作任何其他明示的或暗示的适用性或适销性装保。

道康宁声明不承装偶发的或者资带性损失的任何责任。

全心助您创未来。™

www.dowcorning.com

DOW CORNING® 732

Multi-Purpose Sealant

FEATURES

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Non-sag, paste consistency
- Easy to apply
- Cures to a tough, flexible rubber
- Good adhesion to many substrates
- Stable and flexible from -60°C (-76°F) to +180°C (356°F), with short peaks up to +205°C (401°F)
- Black version: stable and flexible from -60°C (-76°F) to +205°C (401°F), with short peaks up to +230°C (446°F)
- Excellent dielectric properties
- Complies with MIL-A-46106
- Complies with FDA 177.2600
- Available in white, black or clear

General purpose silicone adhesive/sealant (specified)

APPLICATIONS

- General industrial sealing and bonding applications.
- Complies with MIL-A-46106 and FDA 177.2600.

TYPICAL PROPERTIES

Specification writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

CTM*	ASTM*	Property	Unit	Value
As supplied				
0176		Appearance		Non-slump paste
		Color(s)		White, black or clear
0364		Extrusion rate ¹	g/minute	350
0098		Skin-over time	minutes	7
0095		Tack-free time	minutes	20
Mechanical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity				
0097B	D1475	Specific gravity		1.04
0099	D2240	Durometer hardness, Shore A		25
0137A	D412	Tensile strength	MPa	2.3
0137A	D412	Elongation at break	%	540
0420		Volume coefficient of thermal expansion	1/K	1.12x10 ⁻³
Electrical properties, cured 7 days in air at 25°C (77°F) and 50% relative humidity				
0114	D149	Dielectric strength	kV/mm	21.6
0112	D150	Dielectric constant at 100Hz/100kHz		2.8
0112	D150	Dissipation factor at 100Hz/100kHz		0.0015
0112	D150	Volume resistivity	Ohm.cm	1.5x10 ¹⁵

1. Extrusion rate: 3.2mm orifice at 0.62MPa.

* CTM: Corporate Test Method, copies of CTMs are available on request.

ASTM: American Society for Testing and Materials.

HOW TO USE

Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained include PTFE, polyethylene, polypropylene and related materials.

However, for maximum adhesion, the use of DOW CORNING® 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOW CORNING 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

How to apply

Apply DOW CORNING 732 Multi-Purpose Sealant to one of the prepared surfaces, then quickly cover with the other substrate to be bonded.

On exposure to moisture, the freshly applied material will "skin-over". Any tooling should be completed before this skin forms. The surface is easily tooled with a spatula. The Adhesive/Sealant will be tack-free in less than 45 minutes.

Cure time

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOW CORNING 732 Multi-Purpose Sealant will cure to a depth of about 3mm. Very deep sections, especially when access to atmospheric moisture is restricted will take longer to cure completely. Cure time is extended at lower humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

Compatibility

DOW CORNING 732 Multi-Purpose Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

HANDLING PRECAUTIONS

Product safety information required for safe use is not included. Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.dowcorning.com. You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F) in the original unopened containers, this product has a usable life of 27 months from the date of production.

As DOW CORNING 732 Multi-Purpose Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

PACKAGING

This product is available in a variety of container sizes. Contact your local Dow Corning sales representative for information about container sizes available in your area.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION

To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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