

# 道康宁（中国）投资有限公司

## 物质安全资料表

页码: 1/7  
最新修改日期: 2010/07/02  
版本号: GHS 1.1

### DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

#### 一、化学品及企业识别

1.1	产品名称:	DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK
1.2	产品编码:	04024918
1.3	化学品分类:	硅酮弹性体
1.4	产品使用建议和使用限制:	密封剂
1.5	公司介绍	
	制造商/供应商名称:	道康宁（中国）投资有限公司
	地址:	中国上海市张江高科技园区张衡路1077号 邮编: 201203
	电话:	400 880 7110
	电邮地址:	China.info@dowcorning.com
	应急电话:	(86 512) 56732049
	传真电话:	(86 21) 50796552
1.6	首次制作日期:	2010/04/16
1.7	在运输中发生紧急事件, 溢出, 泄漏和火灾时:	请拨打CHEMTREC 国际电话 1 (703) 527-3887 ; 北美洲: 800-424-9300 (接受受话者付款)

#### 二、危险性鉴别

2.1	危险性分类:	皮肤腐蚀/刺激类别3
2.2	标签包括防范说明	
	图形符号:	无。
	信号词:	警告
	危险风险声明:	引起轻微的皮肤刺激。
	防范说明:	避免接触皮肤及眼睛。 发生火灾和/或爆炸时, 不得吸入烟雾。 如果接触眼睛: 用水小心地反复冲洗。戴隐形眼镜者如方便, 先取下隐形眼镜, 然后继续冲洗眼睛。 如果接触皮肤: 用大量肥皂和水温和冲洗。 如果皮肤刺激发生, 应及时求医/就诊。
2.3	其他危险:	未知。

#### 三、成分 / 组成信息

3.1

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### DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

**化学类别:** 混合物

#### 3.2 危险组分

化学品名称	CAS 编号	% (w/w)
C. I. 红色颜料 254	84632-65-5	<10
二异丙氧基二(乙氧基乙酰乙酰基)钛酸盐	27858-32-8	<1
十二烷基苯磺酸	27176-87-0	<1

## 四、急救措施

#### 4.1 急救措施

**眼睛:** 立即用水冲洗。  
**皮肤:** 用肥皂和水冲洗。  
**吸入:** 毋需急救。  
**经口:** 就医处理。  
**注释:** 根据患者的状况及具体的暴露处理。

**4.2 重要症状及危害效应:** 可能引起皮肤受刺激。

#### 4.3 急救或救援人员人身保护

**呼吸系统防护:** 不需要使用呼吸防护设备。  
**眼睛防护:** 使用适当的防护—安全眼镜是最起码要求。  
**皮肤防护:** 进餐前和下班时进行适当清洗。

**4.4 对医生的提示:** 对症下药。如果您想了解更多的信息, 请与道康宁(中国)投资有限公司联络。

## 五、消防措施

**5.1 适当的灭火介质:** 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。

**5.2 禁止使用的灭火剂:** 未确定。

**5.3 特殊危害:** 无。

**5.4 特殊灭火程序:** 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。

**5.5 消防人员的特殊保护设备:** 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。

## 六、泄漏应急处理

#### 6.1

## DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

**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的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, 以便回收利用或废弃。适当清理泄漏区域, 因为即使少量泄露物也会产生滑腻危害。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。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。

**7.2 储存提示:** 需谨慎小心, 远离氧化性物料储存。

**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
C. I. 红色颜料 254	84632-65-5	遵守颗粒极限, OSHA PEL: TWA 15 mg/m <sup>3</sup> total dust, 5 mg/m <sup>3</sup> respirable fraction. ACGIH TLV: TWA 10 mg/m <sup>3</sup> inhalable particulate, 3mg/m <sup>3</sup> respirable particulate.
二异丙氧基二(乙氧基乙酰乙酰基)钛酸盐	27858-32-8	见异丙醇注释。
十二烷基苯磺酸	27176-87-0	未确立。

当接触到水或湿空气时将形成异丙醇。应提供充分的通风排气设备, 将暴露控制在标准范围内。OSHA PEL (final rule): TWA 400 ppm, 980 mg/m<sup>3</sup> and ACGIH TLV: TWA 200 ppm, STEL 400 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:** 使用适当的防护—安全眼镜是最起码要求。  
**手防护:** 如果是过敏性皮肤或长期接触, 应佩戴化学防护手套。  
**皮肤防护:** 进餐前和下班时进行适当清洗。

## DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

**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

**呼吸系统防护:** 不需要使用呼吸防护设备。  
**眼睛防护:** 使用适当的防护—安全眼镜是最起码要求。  
**皮肤防护:** 进餐前和下班时进行适当清洗。  
**预防措施:** 避免接触皮肤及眼睛。不可内服。采取适度的防护。

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:** 见产品名称
- 9.3 **气味:** 无气味
- 9.4 **pH 值:** 无数据。
- 9.5 **熔点:** 无数据。
- 9.6 **沸点/范围:** 无数据。
- 9.7 **闪点:** > 100 °C闭杯测试法
- 9.8 **爆炸极限:** 无数据。
- 9.9 **蒸气压(25°C):** 无数据。
- 9.10 **相对蒸气压 (空气=1):** 无数据。
- 9.11 **比重:** 1.52 g/cm<sup>3</sup>
- 9.12 **水溶性:** 无数据。
- 9.13 **分配系数 (正辛醇/水):** 无数据。
- 9.14 **引燃温度:** 无数据。
- 9.15 **分解温度:** 无数据。
- 9.16 **气味阈值:** 无数据。
- 9.17 **蒸发率:** 无数据。
- 9.18 **燃烧性 (固体, 气体):** 不适用。

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。

## 十、稳定性和反应性

## DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

- 10.1 **稳定性:** 稳定的。
- 10.2 **危险反应的可能性:** 不会产生危害的聚合反应。
- 10.3 **避免接触的条件:** 无。
- 10.4 **禁配物:** 可与强氧化剂发生反应。
- 10.5 **分解产物:** 二氧化碳及微量的未完全燃烧的碳化物。金属氧化物。二氧化硅。甲醛。氧化氮。含氯产品。氧化硫。

## 十一、毒理学资料

- 11.1 **暴露途径:** 皮肤接触和意外吞食。
- 11.2 **过分接触的影响和症状:** 可能引起皮肤受刺激。
- 11.3 **急性毒性:**
- | 化学品名称          | CAS 编号     | LD50 (经口)              | LD50 (经皮肤)         | LC50 (吸入) |
|----------------|------------|------------------------|--------------------|-----------|
| C. I. 红色颜料 254 | 84632-65-5 | > 5,000 mg/kg (耗子)     | > 2,000 mg/kg (耗子) | -         |
| 十二烷基苯磺酸        | 27176-87-0 | 500 - 2,000 mg/kg (耗子) | -                  | -         |
- 眼睛:** 直接接触可能引起短暂的发红及不舒服感。
- 皮肤:** 可能引起轻微刺激。可能引起接触过敏（皮肤过敏）。
- 食入:** 正常使用时只具很低的摄入危害。
- 吸入:** 单一短时间暴露不会有重大影响。
- 11.4 **慢性毒性**
- 皮肤:** 反复或长时间暴露可能引起刺激。
- 食入:** 反复或大量摄入可能造成身体内部伤害。
- 吸入:** 无适合的资料。
- 11.5 **其它健康危害信息:** 吸入烟雾可能导致金属烟雾热，伴有发热、畏寒、疼痛、胸腔发闷及咳嗽的流感症状。

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 **水生和陆生生态毒性**

## DOW CORNING(R) 791 WEATHERPROOFING SEALANT BLACK

**生态毒性效应:****急性影响:**

不能预示对水生有机体的有害影响。

**慢性影响:**

不能预示对水生有机体的有害影响。

**对废水处理厂的影响:**

不能预示对细菌的有害影响。

**12.2 持久性和降解性****水:**

固体物品，不能溶解于水中。

**12.3 生物蓄积性潜力****生物积累性:**

无生物累积能力。

**12.4 在土壤中流动性:**

本产品为固体物，不含相当浓度的水溶性的可能从本产品中滤出的组分，因此对陆上生物体无危害性。

**12.5 进一步的环境补充资料:**

无特定的信息。

**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。

**14.4 特殊要求和其他资料:**

无。

**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]  
化学品分类和危险性公示通则 [GB 13690-2009]**15.2 化学品库存**

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<b>EINECS:</b>	所有组份均列入或予以豁免。
<b>AICS:</b>	所有组份均列入或予以豁免。
<b>IECSC:</b>	所有组份均列入或予以豁免。
<b>PICCS:</b>	所有组份均列入或予以豁免。
<b>DSL:</b>	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。
<b>TSCA:</b>	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。
<b>ENCs/ISHL:</b>	请洽商当地道康宁公司。
<b>KECL:</b>	所有成份均被列出、予以免除或公告。
<b>HSNO:</b>	未评估。

#### 十六、其他信息

- 16.1 联络处:** 技术信息中心 400 880 7110
- 16.2 制作者:** 道康宁（中国）投资有限公司

**图例:**

- 没有具体的资料

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(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK

#### 1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

<b>1.1</b>	<b>Product Name:</b>	DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK		
<b>1.2</b>	<b>Product Code:</b>	04038171		
<b>1.3</b>	<b>Chemical Classification:</b>	Silicone Sealant		
<b>1.4</b>	<b>Recommended Product Usage and Limited Use:</b>	Sealant		
<b>1.5</b>	<b>Company Details</b>			
	<b>Manufacturer/Supplier:</b>	Dow Corning (China) Holding Company Limited		
	<b>Address:</b>	1077 Zhangheng Road, Zhangjiang Hi-Tech Park, Shanghai, P.R.C, Postal Code: 201203		
	<b>Telephone Number:</b>	400 880 7110	<b>Fax Number:</b>	(86 21) 50796552
	<b>Email Address:</b>	China.info@dowcorning.com		
	<b>Emergency Telephone Number:</b>	(86 512) 56732049		
<b>1.6</b>	<b>First Issuing Date:</b>	2010/01/28		

#### 2. HAZARD IDENTIFICATION

<b>2.1</b>	<b>Hazard Classification:</b>	Skin corrosion/irritation: Category 3		
<b>2.2</b>	<b>Label Elements Including Precautionary Statements</b>			
	<b>Symbol:</b>	None.		
	<b>Signal Word:</b>	Warning		
	<b>Hazard Risk Statement:</b>	Causes mild skin irritation.		
	<b>Precautionary Statement:</b>	Avoid contact with skin and eyes. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention.		
<b>2.3</b>	<b>Other Hazard:</b>	None known.		

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>3.1</b>	<b>Chemical characterization:</b>	Mixture		
<b>3.2</b>	<b>Hazardous Ingredients</b>			
	<u>Chemical Name</u>	<u>CAS No.</u>	<u>% (w/w)</u>	
	Dodecylbenzene sulfonic acid	27176-87-0	<1	



**DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK****4. FIRST AID MEASURES****4.1 First Aid Measures**

<b>Eyes:</b>	Immediately flush with water.
<b>Skin:</b>	Wash off with soap and water.
<b>Inhalation:</b>	No first aid should be needed.
<b>Oral:</b>	Get medical attention.
<b>Comments:</b>	Treat according to person's condition and specifics of exposure.

**4.2 Important Symptoms and Hazard Effects:** May cause skin irritation.**4.3 Personal Protection for First Aid or Rescue Personnel**

<b>Respiratory Protection:</b>	No respiratory protection should be needed.
<b>Eye Protection:</b>	Use proper protection - safety glasses as a minimum.
<b>Skin Protection:</b>	Washing at mealtime and end of shift is adequate.

**4.4 Note to physicians:** Treat symptomatically. For further information, the medical practitioner should contact Dow Corning (China) Holding Company Limited.**5. FIRE-FIGHTING MEASURES****5.1 Suitable Extinguishing Media:** On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Water can be used to cool fire exposed containers.**5.2 Unsuitable Extinguishing Media:** None established.**5.3 Specific Hazards:** None.**5.4 Special Fire Fighting Procedures:** Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.**5.5 Special protective equipment for the Fire Fighters:** Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.**6. ACCIDENTAL RELEASE MEASURES****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

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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 absorbant 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. 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.
- 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>
Dodecylbenzene sulfonic acid	27176-87-0	None established.

**8.2 Engineering Controls**

<b>Local Ventilation:</b>	None should be needed.
<b>General Ventilation:</b>	Recommended.

**8.3 Personal Protective Equipment for Routine Handling**

<b>Respiratory protection:</b>	No respiratory protection should be needed.
<b>Suitable Respirator:</b>	None should be needed.
<b>Eye protection:</b>	Use proper protection - safety glasses as a minimum.
<b>Hand protection:</b>	Chemical protective gloves should be worn if sensitive skin is a problem or for prolonged contact.
<b>Skin protection:</b>	Washing at mealtime and end of shift is adequate.
<b>Hygiene Measures:</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.

**8.4 Personal Protective Equipment for Spills**

<b>Respiratory protection:</b>	No respiratory protection should be needed.
<b>Eye protection:</b>	Use proper protection - safety glasses as a minimum.
<b>Skin protection:</b>	Washing at mealtime and end of shift is adequate.
<b>Precautionary Measures:</b>	Avoid skin and eye contact. Do not take internally. Use reasonable care.

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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	<b>Physical Form:</b>	Paste
9.2	<b>Color:</b>	Black
9.3	<b>Odor:</b>	Some odor
9.4	<b>pH:</b>	Not determined.
9.5	<b>Melting Point:</b>	Not determined.
9.6	<b>Boiling point/range:</b>	Not determined.
9.7	<b>Flash Point:</b>	Not applicable.
9.8	<b>Explosive Limit:</b>	Not determined.
9.9	<b>Vapor Pressure @ 25°C:</b>	Not determined.
9.10	<b>Vapour Density (air=1):</b>	Not determined.
9.11	<b>Specific Gravity:</b>	1.46 g/cm <sup>3</sup>
9.12	<b>Water Solubility:</b>	Not determined.
9.13	<b>Partition Coefficient (n-Octanol/Water):</b>	Not determined.
9.14	<b>Autoignition temperature:</b>	Not determined.
9.15	<b>Decomposition Temperature :</b>	Not determined.
9.16	<b>Odor Threshold:</b>	Not determined.
9.17	<b>Evaporation Rate:</b>	Not determined.
9.18	<b>Flammability (Solid, Gas):</b>	Not applicable.

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

**10. STABILITY AND REACTIVITY**

10.1	<b>Stability:</b>	Stable.
10.2	<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization will not occur.
10.3	<b>Conditions to Avoid:</b>	None.
10.4	<b>Materials to Avoid:</b>	Can react with strong oxidising agents.

**DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK**

**10.5 Hazardous Decomposition Products:** Carbon oxides and traces of incompletely burned carbon compounds. Metal oxides. Silicon dioxide. Formaldehyde. Quartz. Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Route of Exposure:** Skin contact and accidental ingestion.

**11.2 Signs and Symptoms of Overexposure:** May cause skin irritation.

**11.3 Acute Toxicity:**

<u>Chemical Name</u>	<u>CAS No.</u>	<u>LD50 (Oral)</u>	<u>LD50 (Dermal)</u>	<u>LC50 (Inhalation)</u>
Dodecylbenzene sulfonic acid	27176-87-0	500 - 2,000 mg/kg (Rat)	-	-

**Eyes:** Direct contact may cause temporary redness and discomfort.

**Skin:** May cause mild irritation. May produce an allergic reaction.

**Ingestion:** Low ingestion hazard in normal use.

**Inhalation:** No significant effects expected from a single short-term exposure.

**11.4 Chronic Toxicity**

**Skin:** Repeated or prolonged exposure may cause irritation.

**Ingestion:** Repeated ingestion or swallowing large amounts may injure internally.

**Inhalation:** No known applicable information.

**11.5 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 Aquatic and Terrestrial Ecotoxicity****Ecotoxicity Effects:**

**Acute:** No adverse effects on aquatic organisms are predicted.

**Chronic:** No adverse effects on aquatic organisms are predicted.

**Fate and Effects in Waste Water Treatment Plants:** No adverse effects on bacteria are predicted.

**12.2 Persistence and Degradability**

**Water:** Solid material, insoluble in water.

**12.3 Bioaccumulative Potential**

**Bioaccumulation:** No bioaccumulation potential.

**12.4 Mobility in Soil:** This product is a solid and does not contain significant concentrations of water soluble

**DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK**

constituents that may be leached from the product. It is therefore not likely to present a danger to terrestrial organisms.

**12.5 Additional Environmental Information:** No specific information is available.

**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.

**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.

**14.4 Special Requirements and Additional Information :** None.

**15. REGULATORY INFORMATION**

**15.1 Applicable Laws:** Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace  
General rule for classification and hazard communication of chemicals [GB 13690-2009]

**15.2 Chemical Inventories**

**EINECS:** All ingredients listed or exempt.  
**AICS:** All ingredients listed or exempt.  
**IECSC:** All ingredients listed or exempt.  
**ENCs/ISHL:** All components are listed on ENCS/ISHL or its exempt rule.  
**KECL:** All ingredients listed, exempt or notified.  
**HSNO:** All ingredients listed or exempt.  
**PICCS:** All ingredients listed or exempt.  
**TSCA:** Not determined.  
**DSL:** Not determined.

**16. OTHER INFORMATION**

**16.1 Contact Point:** Technical Information Center 400 880 7110

**DOW CORNING(R) 791 SILICONE WEATHERPROOFING SEALANT BLACK**

**16.2 Prepared by:** Dow Corning (China) Holding Company Limited

**Legend:**

- No specific information available

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

# 道康寧® 791

## 硅酮建築耐候密封膠

### 中性單組分硅酮密封膠

#### 特點

- ◆ 是伸張、連接、周邊密封和其他移動接口的理想密封材料。
- ◆ 中性固化—適用於鍍膜玻璃，鍍鋅鋼板，銅，磚石和其他多孔性，非多孔性材料。
- ◆ 按 ISO 11600 標準為低模量，按 ASTM 標準為中模量。
- ◆ 可將原接口寬度伸長/壓縮50%。

#### 優點

- ◆ 優良的耐候性、陽光、雨水、冰雪、臭氧或極端溫度都不會造成不良影響。
- ◆ 對包括 Kynar 和其他氟碳噴塗，陽極氧化鋁型材在內的大多數建築材料和元件都無須上底漆。若想進一步了解，請閱讀本說明書中的使用方法。
- ◆ 容易使用—隨時採用一般打膠槍即可擠出應用。
- ◆ 優良的流體性能—使用時不會產生飄絲現象。
- ◆ 符合全球標準(美國、亞洲和歐洲)
- ◆ 和道康寧的結構膠都相容。

#### 基本用途

- ◆ 道康寧®791硅酮建築耐候密封膠是專為幕牆，建築物外牆和其他結構的普通裝配和耐候防水而設計的。

#### 典型物性

規範撰寫者請注意：下列數據不建議用於制定規範，請於制定規範前，向道康寧銷售代表諮詢此產品的詳細說明。

特性	供應品	單位	數值
未固化時—在 23°C/73°F, 50% RH 下測試			
ASTM D-2202	垂流	毫米/英寸	0
ASTM C 603	擠出率	克/分鐘	210
CTM 98B	工作時間	分鐘	15
ASTM C 679	表乾時間	分鐘	35
	固化時間	天	7-14
CTM 97B	比重		1.52
固化 7 天後—在 23°C/73°F, 50% RH 下測試			
ASTM D 2240	硬度	邵 A	30
ISO7389	彈性恢復率	%	>90%
ISO 9047	位移能力	%	±50%
ISO 11600	密封膠級別		低模量 25LM F 和 G
固化後—在溫度23°C/75°F，相對濕度50%情況下固化後28天			
拉伸黏接接口 12 x 12 x 50 毫米 (ISO8339) 0.5 x 0.5 x 2 英吋 (ASTM C 1135)			
	伸長25%時抗拉強度/模量	Mpa psi	0.30 40
	伸長50%時抗拉強度	Mpa psi	0.35 60
	伸長100%時的模量	Mpa psi	0.40 70
	極限抗拉強度	Mpa psi	0.75 120
	極限延伸率	%	460
ASTM C 711	施工溫度範圍	C F	-50至150 -58至302

\* 公司測試方法，複印本可索取。

ASTM: 美國實驗與材料學會

ISO: International Standardisation Organisation

## 產品描述

道康寧®791硅酮建築耐候密封膠是一種單組份，中性固化，建築級密封膠，在任何溫度下都能輕易地擠出使用，並能在室溫下，借助於空氣中的水份，與之反應並固化形成耐候，有彈性的硅酮橡膠。

## 採用標準

道康寧®791硅酮建築耐候密封膠符合甚至超越下列標準規範：

**ASTM Specification C-920 S 類**，  
NS型，25 級，適用於 NT，M，  
G，A類應用

**ISO 11600 F&G 類 -25LM**

**GB/T 14683 F&G 類(中國)**  
BS 5889

DIN 18545 NF 級

SNJF Vitrage et Facade Category 1

## 使用

請參考道康寧應用手冊關於最佳應用方法和接口設計。請聯系當地的道康寧銷售處獲取特別的建議。  
(見聯系名單)

## 準備工作

表面清理：

清除所有留存在接口處和裝配凹陷部位的油脂、塵埃、水分、表面髒污、殘舊密封膠，裝配附件和保護塗層等雜質及污染物。

## 施工應用方法

按照要求安裝襯墊材料或接口填補劑，墊杆隔離物和膠帶。同接口相聯的區域應採用遮蔽帶，以確保密封膠密封線的整潔。對非多孔性表面通常不要求上底漆。對多孔性表面，道康寧建議應用前先做試樣測試。為確保在多孔性或非多孔性表面的最佳黏結性，在工程開工前都應做黏結性測試。請聯系當地的道康寧辦事處獲取特別的建議。

將道康寧®791硅酮建築耐候密封膠連續不斷地擠入並填滿接口。在密封膠表面尚未結皮時，以適當的力量將密封膠壓平於襯墊材料和接口表面上。修整工作應當在打膠後的15分鐘內或尚未結皮前進行。修整完畢後，立即將遮蔽膠帶撕掉。

## 安全操作信息

本產品的說明書未包括安全使用須知的產品安全信息。為了使用上的安全，請在操作前仔細閱讀產品及材料安全資料說明書和容器包裝上的指示。產品及材料安全資料說明書可通過道康寧網址

[www.dowcorning.com](http://www.dowcorning.com)查詢或向當地的道康寧銷售代表處或指定的代理商或道康寧全球聯絡處索取。

## 儲蓄和有效期限

當以原包裝容器儲存在+30°C (86°F)或更低的溫度下，道康寧®791硅酮建築耐候密封膠自生產之日起，保質期為12個月。

## 包裝

道康寧®791硅酮建築耐候密封膠以300毫升及310毫升膠管包裝及500毫升和600毫升腸狀鋁箔包裝方式提供給客戶。請和當地的道康寧銷售處聯系來獲取有關信息。

## 顏色

道康寧®791硅酮建築耐候密封膠提供現成的6種標準顏色：黑，灰，古銅，岩灰，瓷白和白。請聯系當地的道康寧銷售處獲取額外的色卡信息。也可以根據客戶要求的顏色進行生產。

## 使用限制

將道康寧®791硅酮建築耐候密封膠不建議作為結構密封膠使用。

道康寧®791硅酮建築耐候密封膠在下列情況下不宜使用：

- 所有會滲出油脂，可塑劑或溶劑的材料，以及未硫化和部分硫化的橡膠墊襯材和膠帶等
- 密不通風的場所
- 連續浸水的環境或地底下終年潮濕的地方
- 當材料表面溫度超過50°C (122°F)
- 結霜或潮濕的表面

此產品尚未經過醫療和藥物檢驗以証實是否可以使用。

## 健康和環境信息

為了支持客戶在產品安全方面的需求，道康寧在各個地區都有一個廣泛的產品指導組織和產品安全專家組。

欲知更多信息，請查尋我們的網址 [www.dowcorning.com](http://www.dowcorning.com) 或諮詢當地的道康寧代表處。

## 有限保証信息—請仔細閱讀

該保証書所包含的信息是真實而且可信的。然而，由於使用我們產品的外界環境及方法超出了我們的控制範圍，因此該保証書不能保証在客戶自行測試的情況下，能確保道康寧產品能安全、有效、令人滿意地用於最終使用目的。關於使用方面的建議不應作為侵害任何專利的誘因。

道康寧只保証在產品出廠後該產品會滿足道康寧的銷售規範。

若有違反該保証書的情況發生，您唯一的補償是根據採購價格退款或更換與保証書不符的產品。

道康寧否認任何聲明或暗示性的帶有符合某種特殊目的的或商業目的的保証書。

對任何偶發或相繼造成的損害道康寧不承擔任何責任。



# Product Information Silicone Sealants

DOW CORNING

## Dow Corning® 791 Silicone Weatherproofing Sealant

### FEATURES

- Ideal for expansion, connection, perimeter and other movement joints
- Neutral cure – suitable for use on coated glass, galvanized steel, masonry and other porous and non-porous substrates
- Extension/compression movement capability of up to ±50 percent of the original joint width

### BENEFITS

- Excellent weatherability, virtually unaffected by sunlight, rain, snow, ozone
- Excellent unprimed adhesion to a wide variety of construction materials and building components
- Ease of application – ready to use as supplied
- Excellent rheology, low string upon gunning

### COMPOSITION

- One-part, neutral-cure, RTV silicone sealant

Neutral, one-part silicone sealant

### APPLICATIONS

- Dow Corning® 791 Silicone Weatherproofing Sealant is a specified, premium performance weather sealing product specifically designed for general glazing and weather sealing in curtain wall and building facades.

### TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Method	Test	Unit	Result
<b>Uncured – As Tested at 50% RH and 23°C (73°F)</b>			
ASTM <sup>1</sup> C 639	Flow (sag or slump)	inches (mm)	0
ASTM C 603	Extrusion Rate	g/minute	140
	Working Time	minutes	20
ASTM C 679	Tack-free Time, 77°F, 50% RH	minutes	40
	Curing Time at 77° (25°C) and 50% RH	days	7-14
	VOC Content <sup>2</sup>	g/L	31
<b>As Cured – After 21 days at 50% RH and 77°F (25°C)</b>			
ASTM D 2240	Durometer Hardness, Shore A	points	34
ASTM C 794	Peel Strength	lb/in (kg/cm)	30 (5.4)
ASTM C 719	Joint Movement Capability	percent	±50
ASTM C 1135	Tensile Adhesion Strength		
	At 25% extension	Psi (MPa)	40 (0.276)
	At 50% extension	Psi (MPa)	60 (0.414)

<sup>1</sup> ASTM – American Society for Testing and Materials.

<sup>2</sup> Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds. For a VOC data sheet for a specific sealant color, please send your request to [product.inquiry@dowcorning.com](mailto:product.inquiry@dowcorning.com).

### DESCRIPTION

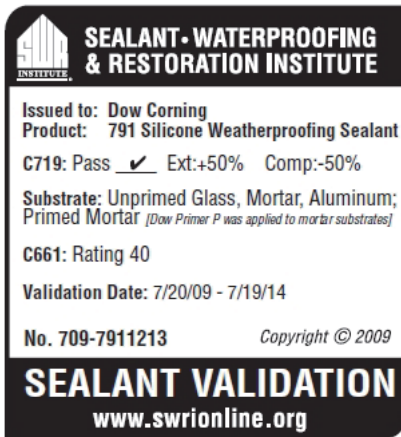
Dow Corning® 791 Silicone Weatherproofing Sealant is a one-part, neutral-cure, architectural grade sealant. It easily extrudes in any weather and cures at ambient temperature by reaction with moisture in the air to form a durable, flexible silicone rubber seal.

### HOW TO USE

Please consult the Dow Corning Americas Technical Manual, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your local Dow Corning Sales Application Engineer for specific advice.

### Preparation

Clean all joints removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.



### Application Method

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on non-porous surfaces, but maybe necessary for optimal sealant of certain porous surfaces. A test placement is always recommended. Apply *Dow Corning*<sup>®</sup> 791 Silicone Weatherproofing Sealant in a continuous operation using a positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment. Before a skin forms (typically within 15 minutes), tool the sealant with light pressure to spread the sealant against backing material and the joint surfaces. Remove masking tape as soon as the bead is tooled.

### APPROVALS/ SPECIFICATIONS

Meets the requirements of:

- ASTM C920 Type S, Grade NS, Class 50, Use NT, M, G, A

### Colors

This product is available in 6 colors: black, gray, bronze, limestone, precast white and white. Custom colors may be ordered to match virtually any substrate.

## HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL 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 DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

### USABLE LIFE AND STORAGE

When stored at or below 30°C (86°F) in the original unopened containers, *Dow Corning*<sup>®</sup> 791 Silicone Weatherproofing Sealant has a usable life of 12 months from the date of manufacture. Refer to product packaging for “Use By” date.

### PACKAGING INFORMATION

*Dow Corning*<sup>®</sup> 791 Silicone Weatherproofing Sealant is available in 10.3 fl oz (305-mL) disposable plastic cartridges that fit ordinary caulking guns, 20-fl oz (590-mL) sausages.

### LIMITATIONS

*Dow Corning*<sup>®</sup> 791 Silicone Weatherproofing Sealant is not approved for use as a structural sealant.

*Dow Corning*<sup>®</sup> 791 Silicone Weatherproofing Sealant should not be used:

- In below-grade applications
- When surface temperatures exceed 50°C (122°F)
- On surfaces that are continuously immersed in water.

- On building materials that bleed oils, plasticizers or solvents, green or partially vulcanized rubber gaskets or tapes
- On frost-laden or wet surfaces
- In totally confined joints (the sealant requires atmospheric moisture for cure)
- If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- To surfaces in direct contact with food or other food-grade applications

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, 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 our 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 our products will meet the 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.**

A 20-year Weatherseal Limited Warranty is available. Some testing may be required. Consult your Dow Corning Sales Application Engineer for details.

*We help you invent the future.* <sup>TM</sup>

**dowcorning.com**