

SLT 6618

粘结和密封

概述

SLT 6618 是单组分, 中性固化, 即时可用的有机硅弹性体。适用于结构件的耐候密封粘接, 在室温下, 和空气中的湿气快速固化, 形成柔韧且牢固的密封。

应用实例

- 高档建筑门窗填缝密封
- 室内和室外装修填缝
- 阳光棚、采光顶、室外幕墙耐候密封
- 其他建筑接口填缝密封

优点

- 单组份, 中等模量, 室温固化时释放出酮肟气体。
- 触变 (不流淌)
- 承受-50°C到+150°C温度变化
- 对大多数基材表现出良好的粘接性, 例如: 与大多数玻璃, 陶瓷, 钢铁, 木材表面和喷涂铝材表现出良好的粘接性。

性能

1, 固化前

密封胶类型.....	脱酮肟型
比重, g/cm ³ , 约.....	1.02
流淌, mm, 约.....	0
挤出速率, g/min, 约.....	133

2, 固化中

表干时间, min, 约.....	4
施工温度, °C.....	+5 到+40

3, 固化后

邵 A 硬度, 约.....	28
工作温度, °C.....	-50 到+150

在 2mm 厚的薄膜的力学性能*

100%延伸时的模量, MPa, 约.....	0.50
拉伸强度, MPa, 约.....	1.9
断裂伸长率, %, 约.....	582

*温度 23 °C, 相对湿度 50%条件下

**为了避免影响粘接性能, 请在使用前在 5 °C 以上预热密封胶。

工艺

接缝设计:

必须考虑密封胶的位移能力以及地方法规。除非另有要求, 一般按照接缝宽度和深度比为 2:1 的原则。

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表面处理:

所有准备粘接基材的表面必须保持清洁、干燥和无灰尘、油、油脂、旧的密封胶及其他可能会对黏合产生影响的污染物痕迹。表面用“两块抹布法”清洁，先用浸泡溶剂的布除去油污，然后用干净的布擦干。灰尘通过无油压缩空气除去。

底漆:

对大多数基材，**SLT 6618** 不需要底漆。应用在有疑问的表面上先进行测试后再决定是否需要使用底涂。

施胶:

为了获得良好的性能，密封胶仅粘接基材的两面是至关重要的，为实现这一目标，需安装一个背衬材料（闭孔聚乙烯或开孔聚氨酯泡沫）。使用连续施胶设备施胶，确保接缝没有气泡或空隙。在结皮之前，用刮刀轻轻挤压修整密封胶，使其充满到接缝表面。过量的未固化的密封胶应当用干布或蘸有溶剂的布清除掉。固化后的可以使用刮刀（即刀片）刮除，或使用特殊的除硅胶剂除去。

使用限制

- **SLT 6618** 绝不能应用于随着时间推移会渗出物质的材料。
- **SLT 6618** 不能用于与固化过程中释放出的酮酐反应的材料。例如：铜及其合金。

颜色

透明，黑色，如需其他颜色，请与我们联系。

包装

SLT 6618 的包装为 195kg 桶装包装和 820kg 大袋包装。

储存和保质期

从生产日期起，**SLT 6618** 在未开封并储存在30℃以下,保质期为12个月（有效期印刷在包装上）。

超过此期限，蓝星有机硅将不再保证该产品符合销售规格。产品一旦开封应当尽快使用。

安全

请参照 **SLT 6618** 安全数据表。

请访问我们的网站：www.lxxh.chemchina.com

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Starsil® XH-6600 High-grade Neutral Silicone Weatherproof Sealant

Construction

Technical Data Sheet n° 073409-2018– Sep/2018

Description **XH-6600** is a one component, neutral curing, ready-to-use silicone elastomer. It cures quickly at room temperature in the presence of air moisture to give a flexible and strong seal.

Examples of applications **XH-6600** is a general purpose silicone sealant which offers good performance on many different applications where weather tightness is required:

- Caulking and sealing for aluminium alloy, stainless steel, glass, ceramic, plastic-steel, etc
- Caulking and sealing for windows and doors;
- Sealing and bonding for interior decoration ;
- General requirement of industrial using .

Key benefits

- One-component, easy to use;
- Neutral curing, no corrosive to most of substrates;
- Excellent weather resistance and good movement capability;
- Good adhesion performance on most of substrates.

Typical properties

1, Before curing

Type of sealant..... oxime

Colors..... Translucent, Bright white, Bright black, Light grey

Specific gravity, g/cm³, approx 1.01

Flow resistance, mm, approx 0

Extrusion, g/min, approx..... 180

2, Curing

Tack free time, min. approx..... 5

Curing rate, mm / 1 day, approx 3

 mm / 3 day, approx 6.5

 mm / 7 day, approx 9

Application temperature, °C+5 to +40

3, After curing

Shore A hardness, approx 25

Operating temperature, °C -30 to +120

Mechanical properties on a 2 mm thick film after 3 days curing*

Starsil® XH-6600 High-grade Neutral Silicone Weatherproof Sealant

Modulus at 100% elongation, MPa, approx	0.45
Tensile strength, MPa, approx	1.8
Elongation at break, % approx.....	550

* at a temperature of 23°C and relative humidity of 50%

** To avoid influence adhesion performance, pls warm the sealant above 5°C before application

Instruction of use

Joint dimensions :

The movement capability of sealants as well as local regulations must be considered. Jointwidth should be twice the depth.

Joint preparation:

The joint faces to be bonded must be clean, dry and free from dust, oil, grease, old sealant and any traces of contaminant which may affect adhesion. Surfaces should be degreased with solvent soaked cloth and then wiped with a clean cloth. To remove dust, use oil-free compressed air.

Priming

For almost substrates, **XH-6600** need not primers. Whether use primer or not when applied on special substrates, prior test is recommended.

Sealant application:

For good performance it is essential that the sealant is only bonded to the two facing sides of the joint. To achieve this install a backup material (closed cell polyethylene or open cell polyurethane foam). Apply the sealant in a continuous operation making sure all air pockets or voids are eliminated. Tool the sealant with light pressure to spread the material against the joint surfaces. This operation should be made with a dry spatula before skin formation occurs.

Excess uncured sealant should be wiped and cleaned with a commercial solvent, cured sealant can only be removed by scraping (i.e. with a razor blade), or with a special silicone remover product.

Limits of use

- **XH-6600** Cannot be used for structural assembly;
- **XH-6600** Should not be used for frost, wet surface or impenetrable places;
- **XH-6600** Should not be used on materials with grease, plasticizer or other dissolves;
- **XH-6600** Should not be using on copper and its alloy which will reacting with ketoxime in curing ;
- **XH-6600** Unfavorable on materials with surface temperature lower than 4 c or above 40 c during construction.

Packaging

XH-6600 is available in 300ml*24 cartridges per box, 590ml*20 sausages per box.

Storage and shelf life

When stored in its original packaging at a temperature below 27°C, **XH-6600** may be stored for up to 9 months from its date of manufacture. Comply with the storage instructions and expiry date marked on the packaging.

Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of **XH-6600**.

Starsil® XH-6600 High-grade Neutral Silicone Weatherproof Sealant

Visit our website: www.lxxh.chemchina.com

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