

# CSL-344 Technical Data Sheet

## Silicone Window Manufacturing Sealant

### 1. PRODUCT NAME

CSL-344 Silicone Window Manufacturing Sealant

### 2. FEATURES

- Neutral cure formulation
- Will not slump or flow when applied vertically
- Withstands  $\pm 50\%$  joint movement
- Excellent resistance to all weathering conditions

### 3. PRODUCT DESCRIPTION

CSL-344 Silicone Construction Sealant is a one part sealant that readily extrudes and cures to produce a low modulus silicone rubber building joint seal. The low modulus characteristic minimizes strain on the substrate surface and the good elasticity allows excellent recovery from compression and extension.

CSL-344 is particularly effective for building joints designed for extreme movement. Typical applications include expansion joints, concrete construction for curtain wall and precast concrete panel joints. It can also be

used as a repair material for joints in which another sealant has failed because of excessive movement.

CSL-344 is a 100% silicone sealant, has excellent resistance to all weathering conditions, including ultra-violet radiation, ozone, moisture, freeze-thaw conditions, and normal airborne chemicals. Such resistance to the elements enables CSL-344 to retain its original design properties over many years of exposure.

### 4. INSTALLATION

All surfaces should be clean and dry. Prior to sealant application on new surfaces, all surfaces should be cleaned by wiping with a solvent such as naphtha. Do not use Varsol. Lacquer coatings are best removed with lacquer thinners. For remedial work, be sure to remove all old caulking and oily residues. Remove any old paint and solvent wash surface prior to caulking.

CSL-344 is ready-to-use and requires no mixing or additives. The cure mechanism begins as soon as the sealant comes in

### Typical Properties

These values are not intended for use in preparing specifications

| <b>Uncured</b>   |                                   |
|--|-----------------------------------|
| Type   | 100% silicone, one-part RTV       |
| Appearance   | Smooth, non-slump paste           |
| Specific Gravity   | 1.13                              |
| Slump/Sag  | Nil                               |
| Extrusion Rate (3.2mm (1/8") orifice, 90psi)                 | 300 g/min.                        |
| Application Temperature Range                                | -18°C to 50°C (0°F to 120°F)      |
| Cure System  | Neutral, Moisture Cure            |
| Tooling Time   | 5 - 10 min.                       |
| Tack Free Time   | 30 min.                           |
| Cure Time at Standard Conditions*                            | 48 hr.                            |
| <b>Cured</b>   |                                   |
| At Standard Conditions* for 7 Days                           |                                   |
| Durometer Hardness (ASTM D2240, Shore A)                     | 20 points                         |
| Tensile Strength (ASTM D412)                                 | 10.5 kg/cm <sup>2</sup> (150 psi) |
| Elongation at Break (ASTM D412)                              | 400%                              |
| Joint Movement Capability                                    | $\pm 50\%$                        |
| Tear Resistance (ASTM D624, Die B)                           | 3.5 kN/m (20 psi)                 |
| Thermal Expansion Coefficient (0°C to 100°C / 32°F to 212°F) | 9.3 x 10 <sup>-4</sup> cm/°C      |
| Useable Temperature Range                                    | -45°C to 149°C (-50°F to 300°F)   |

\*Standard Conditions are 25°C (77°F) and 50% relative humidity

contact with the air. At conditions of 25°C (77°F) and 50% relative humidity, a bead of sealant 3mm (1/8") will skin over in 10 minutes and fully cure in 24 hours, attaining full physical properties in 7 days. Tooling should be done before "skinning" takes place.

CSL-344 does not normally require a primer on common construction substrates. When in doubt, apply a test bead of sealant to substrate or sample and check adhesion.

#### **5. COLORS**

CSL-344 is available in standard colors. Special colors are available on request.

#### **6. PACKAGING**

CSL-344 is available in 300ml (10.2 fl oz) caulking cartridges, 19L (5 US gallon) pails and 189L (50 US gallon) drums.

#### **7. STORAGE**

CSL-344 when stored in original unopened container at or below 32°C (90°F) has a one year shelf life from the date of manufacture. Most products however, will last longer if stored in cool dry conditions.

#### **8. SAFETY PRECAUTIONS**

CSL-344 uses a neutral cure system, so no acetic acid or objectionable by-products are evolved during cure. Adequate ventilation should be provided with extensive use of this sealant. On direct contact, uncured sealant may irritate eyes. Flush well with water and call a physician. Avoid prolonged contact with skin. See Material Safety Data Sheet available on this product. **KEEP OUT OF REACH OF CHILDREN.**

#### **9. WARRANTY**

CSL Silicones Inc. warrants that its products will meet its specifications. CSL shall in no event be liable for incidental or consequential damages. Except as expressly stipulated, CSL's liability, expressed or implied, is limited to the stated selling price of any defective goods.

Data is subject to change without notice and it is therefore recommended that this information not be used for specification writing. For additional information on specific applications, contact the manufacturer.

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