

## COOLROOM SEALANT CR6S

### DESCRIPTION

Bostik Industrial Grade Coolroom Sealant CR6S is a low modulus 100% neutral cure silicone joint sealant. This flexible silicone sealant has been certified by New Zealand Food Safety Authority for use in premises processing all animal products except dairy.

### RECOMMENDED USES

- Sealing expansion joints in all cool stores and refrigerated rooms

### FEATURES AND BENEFITS

- Ideal for expansion joints
- Resistant to mould and fungi
- Ideal for wet areas
- Permanently flexible
- Non slump
- One part sealant provides confidence of consistent, even cure

### PROPERTIES

Typical properties after 7 days cure at 25°C and 50% RH. Curing may take longer at low temperatures and/or high humidity	
Colour	Titania
Skin time	8 – 10 minutes
Tack free time	30 minutes
Tooling time	10 minutes
Hardness Shore A	Approximately 20
Modulus at 100% Elongation	0.4mPa
Tensile Strength	Approximately 1.13 mPa
Elongation at rupture	Approximately 650%
Dynamic movement capacity	± 25%
Accelerated ageing and weathering	Excellent
Application temperature	5 to 35°C
Service temperature	-50 to +150°C

**Wellington Site (Factory & Admin)**  
**Auckland Site**

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This datasheet is for the general help of users. It is provided in good faith. The data is current and accurate to the best of our knowledge. Differing materials, substrates, environments, site conditions, and product storage, handling and application may affect results. Users should carry out tests to decide the product's suitability for purpose. This data sheet and the properties of the product may change without notice. Users, suppliers and retailers should check that the data sheets they have are the latest. To the maximum extent permitted by law, Bostik disclaims all warranties in relation to manufacture and use of the product. Bostik is not liable for representations made by users, suppliers or retailers about the product. Bostik is not liable for any loss or damage resulting from incorrect, careless, or negligent use or storage of the product, including use of out of date product. Any liability arising from use of the product is limited to the replacement or purchase price of the product. Bostik does not exclude rights and remedies that cannot be excluded by legislation, for example under the Consumer Guarantees Act 1993. Sale of the product by Bostik is subject to the Bostik New Zealand Limited Conditions and Terms of Sale. For more information on Bostik, products, and conditions of use and sale visit [www.bostik.co.nz](http://www.bostik.co.nz)

The maximum service temperature listed is for transient temperatures, the silicone sealant will deteriorate if subjected to these temperatures on a continuous basis.

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## **APPLICATION**

### **Joint design**

The sealant must be capable of withstanding the expected joint movement. To calculate the joint width, establish the expected movement (expansion, contraction and shear movement) that the joint is required to withstand. The dynamic movement capability of Bostik Coolroom Sealant CR6S is  $\pm 25\%$ .

The joint design must avoid three-sided adhesion. The sealant depth for a weatherseal is normally half the joint width. The minimum acceptable joint depth is 6mm, therefore, if required joint width is 6mm the depth is also 6mm.

Backup material: use a closed cell polyethylene backing rod, 25% larger than the joint width to control the depth of the joint.

### **Compatibility with adjacent substrates**

Silicones are not always compatible with plasticized sealants such as butyls. Also, some backing rods and glazing tapes contain bitumen or other agents that are incompatible with the silicone. The incompatibility may cause discolouration, poor sealant cure or long term degradation of the sealant.

Always carry out compatibility tests where contact with potentially incompatible material occurs.

### **Application**

- Ensure that the surfaces to be sealed are dry and free from oil, dirt and grease.
- Use the two-wipe process for impervious substrates. Ensure the cloths are clean and changed frequently, and use a suitable cleaner/solvent such as IPA.
- When extruding the sealant cut the nozzle to the desired width, cut the tip off the cartridge and attached nozzle. Apply the sealant firmly to ensure good contact between the sealant and the substrate.
- Before the sealant has skinned, tool it off to ensure a good finish, and to improve the wetting out of the sealant to the substrate.
- To achieve satisfactory adhesion a primer may be required for some substrates. Contact your Bostik representative for more information.

### **Curing**

Bostik Coolroom Sealant CR6S cures by absorbing atmospheric moisture, it will skin over in 8 to 10 minutes and cure to a depth of 7mm in 7 days.

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## **IMPORTANT NOTES**

Bostik Coolroom CR6S Sealant is NOT suitable for the following applications:

- As the sealant requires atmospheric humidity to cure, it will not cure in totally confined spaces where it does not have access to atmospheric humidity.
  - Aquariums
  - Structural glazing
  - Under water applications (including swimming pools)
  - Below grade applications
  - All stone finishes.
  - Horizontal walkways
  - This product is suitable for some applications where the sealant is in contact with water for extended periods. Please contact [nzspecifications@bostik.com](mailto:nzspecifications@bostik.com) to confirm your design details before commencing work.
  - This sealant is not paintable
  - Do not clean or treat the sealant with materials, cleaning agents or solvents that may affect or discolour the sealant during product curing.
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## **STORAGE /SHELF LIFE**

Always store the sealant in a cool dry place. Ideal storage temperature is not more than 25°C. Prolong ed storage at high temperatures may affect the shelf life and ultimate performance. Protect from frost. The shelf life of Bostik Coolroom Sealant CR6S is 12 months from the date of manufacture when stored below 25°C and 50% relative humidity.

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## PACKAGING

400gram cartridge with 15 cartridges per box

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## HEALTH AND SAFETY

Full details are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that the appropriate Safety Data Sheets are read by all concerned. Visit [www.bostik.co.nz](http://www.bostik.co.nz) for copies.

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## VERSION

V1	23 February 2012	New product
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