

DOW CORNING® C50 High Modulus Silicone Sealant

FEATURES

- Specially developed for use by sealant contractors
- High modulus, high elasticity
- Fungus and mildew resistant
- 100% silicone polymer
- Resistant to ozone, ultra-violet radiation and temperature extremes
- Conforms to ISO 11600-F-20LM

Acetoxy silicone sealant

APPLICATIONS

DOW CORNING C50 High Modulus Silicone Sealant is a one-part sealant, which has been specifically developed for use by the sealant contractor. It has excellent adhesion to a range of non-porous substrates including glass, aluminum and painted wood. Highly flexible and containing a fungicide, Dow Corning C50 Silicone Sealant is also suitable for use in sanitary applications.

TYPICAL PROPERTIES

The following values are not intended for use in preparing specifications:

Cure Type	: Acetoxy
Working Time	: 5-10 minutes
Slump	: Nil
Tack Free Time	: 20 minutes
Cure Time for 2.5mm depth	: 24 hours
Application Temperature Range	: +5°C to +30°C

HOW TO USE

Surface Preparation

Ensure that surfaces to be sealed are clean, dry, sound and free from frost. Clean all joints of release agents, water repellents, laitance, dust, dirt, old sealants and other contaminants, which could impair adhesion. Non-porous surfaces should be cleaned and degreased by wiping with a suitable solvent such as DOW CORNING R40 Universal Cleaner on an oil and lint-free cloth before application of the sealant. Porous substrates should be mechanically cleaned using a steel brush, sanding disc or any similar means.

Note: When using any solvent, always provide adequate ventilation. Avoid heat, sparks and open flames. Use solvent resistant gloves. Observe and follow all precautions listed on solvent container label.

Masking

Areas adjacent to the joints should be masked with tape to prevent contamination of the substrates and to ensure a neat sealant line. Masking tape should be removed immediately after tooling.

Priming

Primer is not required on most common non-porous substrates. However, a test placement prior to general use is always recommended. For specific advice, please refer to the Dow Corning Primer Guide or contact Geocel for technical assistance.

Back-Up Materials

Closed cell polyethylene backer rod is recommended as a back up material to provide back pressure and avoid three-sided adhesion that limits sealant movement capability. Low tack polyethylene tape should be used in joints too shallow to allow the use of backer rod.

Finishing

The joint should be tooled within 5 minutes of application to ensure good contact between the sealant and the substrate. Tooling of the sealant also gives a smooth, professional finish.

Clean-Up

Excess sealant may be cleaned off tools and non-porous surfaces whilst in an uncured state using DOW CORNING R40 Universal Cleaner. If sealant is misapplied to porous substrates, it should be left until just cured, and then removed by peeling, cutting or other mechanical means. Care should be taken not to damage plastic or coated surfaces.

Joint Design

When designing joints using DOW CORNING C50, the minimum width should be 6mm. For joints between 6mm-12mm wide, a seal depth of 6mm is required. For joints above 12mm

wide, a width to depth ratio of 2:1 should be used. In situations where fillet joints are needed, a minimum of 6mm sealant bite to each substrate is recommended.

USEABLE LIFE AND STORAGE

DOW CORNING C50 Silicone Sealant should be stored in cool and dry conditions.

When stored at or below 30°(86°F) in the original unopened container, DOW CORNING C50 Silicone Sealant has a useable life of 27 months from date of manufacture.

COLOUR RANGE & PACKAGING

DOW CORNING C50 Silicone Sealant is available in white and clear and is supplied in 310ml cartridges, packed in boxes of 12.

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. You can obtain a copy from your local Dow Corning sales representative or distributor.

LIMITATIONS

DOW CORNING C50 Silicone Sealant should not be used in structural glazing or insulating glazing applications.

Do not use DOW CORNING C50 Silicone Sealant on bituminous substrates, substrates based on natural rubber, chloroprene or EPDM or on building materials, which might bleed oils, plasticisers or solvents. Do not use DOW CORNING C50 Silicone Sealant in a totally confined space because the sealant requires atmospheric moisture to cure. Because acetic acid is released during curing, it can corrode mirror silver and sensitive metals such as copper, brass and lead. DOW CORNING C50 Silicone sealant is not recommended for use on

submerged joints or in joints where physical abuse or abrasion are likely to occur.

DOW CORNING C50 Silicone Sealant is not suitable for food contact applications.

It is recommended that DOW CORNING C50 Silicone Sealant is not applied to surfaces that are below 5°C (41°F) as it is impossible to guarantee a dry surface at these temperatures.

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

**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.

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