

DOW CORNING® Q3-3379 Flowable Adhesive/Sealant

FEATURES

- One-component adhesive/sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Flowable and self-levelling
- Easy to apply
- Stable and flexible from -50°C (-58°F) to +250°C (482°F), with short peaks up to +275°C (527°F)

Flowable, heat resistant silicone adhesive/sealant

APPLICATIONS

- Can be used in applications which demand a strong but flexible bond able to withstand operating temperatures up to +250°C (482°F), with short term peaks up to +275°C (527°F).
- Can be used in applications such as steam irons, ovens and washing machines.
- Compatible with fast moving production/assembly lines.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales representative prior to writing specifications on this product.

| CTM* | ASTM* | Property | Unit | Value |
|--|-------|-----------------------------|---------|-----------------------|
| As supplied | | | | |
| 0176 | | Appearance | | Smooth flowable paste |
| | | Color | | Red |
| 0050 | D1084 | Viscosity at 23°C (73.4°F) | mPa.s | 73,500 |
| 0098 | | Skin-over time | minutes | 8 |
| 0095 | | Tack-free time | minutes | 20 |
| Physical properties measured on 2mm thick sheet after 7 days cure in air at 23°C (73.4°F) and 50% relative humidity | | | | |
| 0022 | D792 | Specific gravity | | 1.3 |
| 0099 | D2240 | Durometer hardness, Shore A | | 34 |
| 0137A | D412 | Tensile strength | MPa | 3.2 |
| 0137A | D412 | Elongation at break | % | 290 |

* CTM: Corporate Test Method, copies of CTMs are available on request.
ASTM: American Society for Testing and Materials.

HOW TO USE

Substrate preparation

All surfaces must be clean and dry. Degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

Unprimed adhesion may be obtained on many substrates such as glass, metals and most common engineering plastics. Substrates to which good adhesion is normally not obtained

include PTFE, polyethylene, polypropylene and related materials.

For maximum adhesion, the use of DOW CORNING® 1200 OS Primer is recommended. After solvent cleaning, a thin coat of DOW CORNING 1200 OS Primer is applied by dipping, brushing or spraying. Allow primer to dry for 15 to 90 minutes at room temperature and a relative humidity of 50% or higher.

How to apply

Apply DOW CORNING Q3-3379 Flowable Adhesive/Sealant either directly on to the pre-assembled unit or dispense it into the containment groove and then quickly insert the other component to be bonded.

On exposure to moisture, the freshly applied material will "skin over" in about 8 minutes at room temperature and 50% relative humidity. Any tooling should be completed before this skin forms. The adhesive/sealant will be tack-free in about 20 minutes.

Cure time

After skin formation, cure continues inward from the surface. In 24 hours (at room temperature and 50% relative humidity) DOW CORNING Q3-3379 Flowable Adhesive/Sealant will cure to a depth of about 2mm. Very deep sections, especially when access to atmospheric moisture is restricted, will take longer to cure completely. Cure time is extended at lower humidity levels.

Before handling and packaging bonded components, users are advised to wait a sufficiently long time to ensure that the integrity of the adhesive seal is not affected. This will depend on many factors and should be determined by the user for each specific application.

Compatibility

DOW CORNING Q3-3379 Flowable Adhesive/Sealant releases a small amount of acetic acid during cure. This may cause corrosion on some metallic parts or substrates, especially in direct contact or when the cure is carried out in a totally enclosed configuration which would not allow cure by-products to escape.

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. THE

SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

USABLE LIFE AND STORAGE

When stored at or between -15°C (5°F) and +35°C (95°F) in the original unopened containers DOW CORNING Q3-3379 Flowable Adhesive/Sealant has a usable life of 12 months from the date of production.

PACKAGING

This product is available in standard industrial container sizes. For details please refer to your Dow Corning sales office.

LIMITATIONS

This product is neither tested nor represented as suitable for medical, food contact 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 Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

LIMITED WARRANTY - PLEASE READ CAREFULLY

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