

Dow Corning[®] PV-7326 Potting Agent

FEATURES & BENEFITS

- Tailor made product for PV J-box potting
- Thermal conductivity >0.5 W/mk
- Good adhesion performance to J-box substrate
- Compatible with frame sealant and adhesive sealant
- Flame resistance V0 level
- Neutral alkoxy sealant
- Fast room temperature cure

COMPOSITION

- Two-part, 4:1 (by volume) mix ratio silicone elastomer supplied as flowable liquid

Potting material providing thermal management and protection from environmental elements

APPLICATIONS

- Potting of solar module junction boxes

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

| CTM ¹ | Properties | Unit | Result |
|------------------|---|-------------------|---------------|
| Catalyst | | | |
| 0176 | Color | | Translucent |
| 0050 | Viscosity | centipoise | 210 |
| 0097B | Specific Gravity | | 0.94 |
| Base | | | |
| 0176 | Color | | White/Black |
| 0050 | Viscosity | centipoise | 4842 |
| 0097B | Specific Gravity | | 1.48 |
| Mixed | | | |
| 0176 | Color | | White/Black |
| 0050 | Viscosity Mixed | centipoise | 3300 |
| 0099 | Durometer, Shore A | | 37 |
| 0022 | Density ² | g/cm ³ | 1.42 |
| 0055 | Working Time ³ | minutes | 7.6 |
| 0092 | Non-flow Time | minutes | 38 |
| | Room Temperature Cure Time ⁴ | hours | 72hours@25 °C |
| 0114 | Dielectric Strength | kV/mm | 25.25 |
| 0249 | Volume Resistance | Ω .cm | 1.08E+15 |
| | Thermal Conductivity | watts/meter °K | 0.54 |

¹CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.

²Cured.

³Pot life, time to double initial viscosity (initial mixed viscosity for two-part products) at room temperature.

⁴Cured at 25 °C and 50% RH.

DESCRIPTION

Dow Corning[®] PV-7326 Potting Agent is supplied as two-part liquid component kits comprised of base and catalyst to be mixed in a 4:1 ratio by volume. It is suitable for manual mixing or automated mixing and dispensing. When liquid components are thoroughly mixed, the mixture cures to a flexible elastomer.

HOW TO USE

Dow Corning PV-7326 Potting Agent is supplied in two parts that are mixed in a 4:1 ratio (base and catalyst).

Both base and catalyst part are moisture sensitive. Please keep opened packaging away from moisture. Catalyst is especially very sensitive to moisture. Purging with dry N₂ is suggested when reopening packaging.

Dow Corning PV-7326 Potting Agent can be dispensed manually or by using one of the available types of meter mix equipment. Typically, the components are readily mixed with static or dynamic mixers. Automated meter-mix equipment is normally used with high-volume processes. For low-volume applications, manual weighing and simple hand mixing may be appropriate.

Inaccurate proportioning or inadequate mixing may cause localized or widespread problems affecting the pottant properties or cure characteristics. If possible, the potential for air entrapment should be considered during design of the part and selection of a process to mix and dispense the pottant. Subjecting the pottant part to >28 inches Hg vacuum may be necessary to ensure a void-free, protective layer.

It is expected that some settling may occur in the base over time. Therefore, it is recommended that the base be mixed in a pail or drum roller before use and for automated line use, it is recommended that the base be applied from an agitated dispense tank.

It is recommended that the material be mixed, such as with a pail or drum

roller upon receipt. The material should then be applied from an agitated dispensing tank.

Working Time and Cure

Working time (or pot life) is the time required for the initial mixed viscosity to double at room temperature (RT). For two-part, condensation cure products, such as *Dow Corning* PV-7326 Potting Agent, the cure reaction begins when the catalyst and base are mixed. As the cure progresses, viscosity increases until the material cures. *Dow Corning* PV-7326 Potting Agent will cure at room temperature, 50% relative humidity and the result is 72 hours.

USEFUL TEMPERATURE RANGES

For most uses, *Dow Corning* PV-7326 Potting Agent should be operational over a temperature range of -45 to 150 °C (-49 to 302 °F) for long periods.

HANDLING

PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOW CORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 35 °C (95 °F) in the original unopened containers, *Dow Corning* PV-7326 Potting Agent has a usable life of 12 months from the date of manufacture.

Storage conditions and shelf life ("Use By" date) are indicated on the product label.

PACKAGING INFORMATION

Dow Corning PV-7326 Potting Agent is available in standard pail and drum packaging. Detailed container size information may be obtained from your *Dow Corning* representative.

LIMITATIONS

Use of this product must be based on the results of your product testing, manufacturing processes, and end applications. Full environmental exposure testing is recommended for all applications.

This product is neither tested nor represented as suitable for medical 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 Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, dowcorning.com or consult your local *Dow Corning* representative.

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 our 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 our products will meet the 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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

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