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Technical Data Sheet

# DOWSIL™ 236 Dispersion Coating

Release coating for protecting surfaces from weathering, corrosion and dirt

## Features & Benefits

- Supplied as low viscosity; cures to tough rubber coating
- Oxime cure at room temperature by reaction with moisture vapor in the air
- Good release – can release sticky materials (except silicones); can prevent process materials from sticking to rolls and conveyors
- Can reduce equipment clean-up caused by build-up of sticky materials
- Can be applied “on the job” – does not require disassembling equipment to apply or repair the coating

## Composition

- Solvent dispersion of one-part silicone rubber

## Applications

DOWSIL™ 236 Dispersion Coating is designed for use as a release coating to provide easy clean-up and to provide protection of surfaces from weathering and corrosion. It can be used as a lining to protect plastic containers or vessels and to shield plastic materials from weathering or sticky materials. The cured coating is an electrical insulator. Specific uses include:

- Latex manufacturing equipment – facilitates clean-up of areas subject to splashes and spills
- Conveyor belts – can prevent adhesion of sticky materials; helps keep build-up from forming
- Rolls – can help prevent adhesion of coated paper or coated fabrics
- Paint spraying operations – can make clean housekeeping easier
- Dryer flights – can prevent adhesion of products
- Waste handling equipment – can hold down build-up that adds weight and reduces capacity of containers
- Urethane and polyester molding – can provide easy removal of flash

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## Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

| Test | Property | Unit | Result |
|---|---|---|---|
| | **As Supplied** | | |
| CTM[1] 0176 | Color | | White |
| CTM 0021A | Flash Point | °F (°C) | 50–53 (10–12) |
| CTM 0010 | Solids | percent | 70 |
| CTM 0050 | Viscosity at 77°F (25°C) | centipoise | 675 |
| | Shelf Life at 77°F (25°C) and 50 Percent Relative Humidity | months | 12 |
| | Vehicle | | VM&P naphtha |
| | Approximate Service Temperature | °F (°C) | -40 to 300 (-40 to 150) |
| | **As Cured at 72°F (22°C) and 50 Percent Relative Humidity** | | |
| CTM 0095 | Tack-free Drying Time | hours | 2 |
| | Cure Time, 0.100 inch | hours | 24 |
| | Skin-over Time | minutes | 85 |
| | **As Cured** | | |
| CTM 0137A | Tensile Strength | psi | 325 |
| CTM 0137A | Elongation | percent | 500 |
| CTM 0099 | Durometer, Shore A | points | 20 |
| CTM 0022 | Specific Gravity at 77°F (25°C) | | 1.64 |

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

## Description

DOWSIL™ 236 Dispersion Coating is a silicone rubber coating. It is easily applied to a wide variety of surfaces to provide a dry-surfaced, durable, rubbery coating.

Supplied as a liquid, the coating material can be applied by brushing, spraying, dipping, roller coating or stamp coating. It cures to form a smooth, white rubber coating at room temperature when exposed to the air.

## How to Use

### Surface Preparation

Surfaces must be clean and dry before curing. Moisture, grease, oil, dirt and cleaning agents can interfere with adhesion of the coating. Clean the surface with a solvent to remove foreign material. Then wash with Dow OS fluid or acetone to remove moisture and any residue from the first cleaning operation. In general, solvent cleaning of wood surfaces is not necessary.

For best adhesion, apply a light, uniform coating of DOWSIL™ 1200 OS Primer by brushing or spraying. Allow the prime coat to dry for 45 minutes at normal temperature and humidity conditions. Avoid excess prime coat. Light, uniform application is best. A low-VOC primer version is available as DOWSIL™ P5200 Adhesion Promoter.

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## How to Use (Cont.)

### Cures by Air-drying

Apply DOWSIL™ 236 Dispersion Coating and allow to air-dry 24 hours at room temperature in a humid atmosphere, such as ≥ 50 percent relative humidity.

### Optimum Coating Thickness

The dry film thickness obtained from each application of DOWSIL™ 236 Dispersion Coating should be between 4 and 18 mils. If thicker sections are required, additional coatings should be made. Before applying an additional coat, clean the coated surface with Dow OS fluid. Between coatings, allow 2 to 4 hours for each layer to dry at room temperature in a humid atmosphere.

Repairs to coatings can easily be made by the same procedure.

### Application Methods

For precise control of coating thickness, spraying is the best method of application. However, brushing, dipping, roller coating or stamp coating may be used. To obtain the viscosity most suited to a particular spraying system, the dispersion may be thinned with a solvent such as VM&P naphtha or Dow OS fluid.

### Cleaning Application Equipment

To keep the dispersion from setting up and curing in spray guns, brushes, lines or rollers, thoroughly clean the application equipment immediately after use with a solvent such as Dow OS fluid.

## Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. 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 ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

## Usable Life and Storage

Because DOWSIL™ 236 Dispersion Coating cures to a rubbery mass on exposure to humid air, storage containers should be kept closed when not in use. The recommended procedure is to remove the quantity needed for a single application and keep the remaining material in a closed container. Store below 90°F (32°C). DOWSIL™ 236 Dispersion Coating has a shelf life of 12 months from date of manufacture. Refer to product packaging for “Use By” date.

## Packaging Information

DOWSIL™ 236 Dispersion Coating is shipped in 1, 8 and 40 lb (0.45, 3.6 and 18.1 kg) containers, net weight.

## Limitations

May discolor brass, copper and other sensitive metals. May stress crack plastics like polycarbonate. Test before use.

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

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## Shipping Limitations

DOT Classification: Flammable.

## Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

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

## Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

## Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

## Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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