

# Silicone Coatings

## Dow Corning® 236 Dispersion Coating

### FEATURES

- Supplied as low viscosity; cures to tough rubber coating
- Oxime cure at room temperature by reaction with moisture vapor in the air

### BENEFITS

- 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

### Release coating for protecting surfaces from weathering, corrosion and dirt

### USES

Dow Corning® 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

### TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

Method	Test	Unit	Result
<b>As Supplied<sup>1</sup></b>			
CTM <sup>1</sup> 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)
<b>As Cured at 72°F (22°C) and 50 percent Relative Humidity</b>			
CTM 0095	Tack-Free Drying Time	hours	2
	Cure Time, 0.100 inch	hours	24
	Skin-Over Time	minutes	85
<b>As Cured</b>			
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

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

**Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Service in Midland, MI. Call (517) 496-6000.**

## DESCRIPTION

*Dow Corning* 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.

## 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.

## 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 Corning*® 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 *Dow Corning*® 1200 Prime Coat 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 *Dow Corning*® P5200 Adhesion Promoter.

### Cures by Air-Drying

Apply *Dow Corning* 236 Dispersion Coating and allow to air-dry 24 hours at room temperature in a humid atmosphere, such as  $\geq 50$  percent relative humidity.

## Optimum Coating Thickness

The dry film thickness obtained from each application of *Dow Corning* 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 Corning* 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 Corning* 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 Corning* OS Fluid.

## SHIPPING LIMITATIONS

DOT Classification: Flammable.

## STORAGE AND SHELF LIFE

Because *Dow Corning* 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). *Dow Corning* 236 Dispersion Coating has a shelf life of 12 months from date of manufacture. Refer to product packaging for "Use By" date.

## PACKAGING

*Dow Corning* 236 Dispersion Coating is shipped in 1-, 8- and 40-lb (0.45-, 3.6- and 18.1-kg) containers, net weight.

## SAFE HANDLING INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. 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 FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY WRITING TO DOW CORNING CUSTOMER SERVICES, OR BY CALLING (517) 496-6000.

## 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.

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. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.