



## Technical Data Sheet

### DOWSIL™ DY39-012 Primer

#### Primer for High Consistency Rubber

#### Features & Benefits

- A primer specially designed for silicone rubber to adhere to substrates such as aluminum, stainless and iron steel
- Contains toluene and heptane as solvent
- Good adhesion to metals
- Heat resistance
- Silicone oil resistance

#### Composition

- Silicone in solvent

#### Applications

- General rubber molding

#### Typical Properties

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

CTM <sup>1</sup>	Property	Unit	Result
0176	Appearance		Reddish brown liquid
0050	Viscosity at 25°C (77°F) <sup>2</sup>	mPa.s	23
0208	Non-volatile content <sup>3</sup>	%	12

1. CTM: Corporate Test Method, copies of CTM's are available on request.

2. Viscosity: VA-I type spindle viscometer; rotor #1 x 60 rpm.

3. Non-volatile content: after 48 hours at RT and 1 hour at 150°C (302°F).

#### Description

DOWSIL™ DY39-012 Primer is a primer developed specially to obtain the adhesion of high consistency rubber to metals such as aluminum, stainless steel and iron steel.

#### How To Use

With most surfaces, substantially stronger and more uniform bonds are obtained by preparing them with a primer. For best results, these steps should be followed.

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DOWSIL™ DY39-012 Primer

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## How To Use (Cont.)

### 1. **Cleaning the surface**

Thoroughly clean and degrease the surface using a solvent and a slightly abrasive pad or a coarse lint-free cloth. Then, rinse all cleaning agents off the surface with acetone or methyl ethyl ketone. Allow the surface dry. Alternatively, aqueous degreasing with steam or hot water and appropriate additives can be used to effectively prepare surfaces. Rinse with demineralized water and allow to dry thoroughly. Ensure that no residues are left on the surface.

### 2. **Applying the primer**

Apply a thin coat of the primer by spraying, dipping or brushing using a brush, gauze or cloth. A thin film primer will give best adhesion. Film thickness can be roughly estimated by color, the thicker the film, the darker the red tint.

### 3. **Drying**

Allow the primer to dry at room temperature. More than two hours drying at RT is the recommended condition.

### 4. **Curing of silicone rubber stock**

Apply uncured silicone rubber and cure the rubber in a heated press.

## 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 [WWW.CONSUMER.DOW.COM](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

The red pigment possibly separates from the other ingredients in the primer. Before use, shake the can to mix them uniformly.

The solvents used for DOWSIL DY39-012 Primer are flammable. Handle the primer in a well-ventilated atmosphere without any fire or spark.

## Usable Life And Storage

Product should be stored at or below room temperature, (away from direct sunlight), maximum 32°C (90°F) in original, unopened containers.

## Limitations

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

Not intended for human injection. Not intended for food use.

## 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, [www.consumer.dow.com](http://www.consumer.dow.com) or consult your local Dow representative.

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