

## Product Information

# Water Repellents

DOW CORNING

## *Dow Corning*<sup>®</sup> IE-6683 Water Repellent Emulsion

### FEATURES

- Fast beading action
- Excellent water repellency
- Water based, easy to use
- Dilutable; dilution stable
- Effective at concentrations as low as 3% actives
- No SiH – easy to store, handle and ship; vented containers not required

### COMPOSITION

- 40% active, water-dilutable silicone emulsion

**40% active, water-dilutable silicone water repellent for porous construction materials**

### APPLICATIONS

- Imparting water repellency to porous construction materials such as bricks, stone, concrete blocks, mortar and grout

### TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning sales office or your Global Dow Corning contact before writing specifications on this product.

Test	Unit	Result
Color		Milky white
Active Ingredient	percent	40
Volatile Organic Content (VOC)	g/l	<200
Specific Gravity at 25°C (77°F)		1.01
pH		4-6
Flash Point, closed cup	°C (°F)	>100 (212)
Density	g/cm <sup>3</sup>	1.01
Solvent (Thinner)		Water

### DESCRIPTION

*Dow Corning*<sup>®</sup> IE-6683 Water Repellent Emulsion is a 40% active, water-dilutable silicone water repellent that imparts penetrating water repellency for treatment of concrete, masonry and stone construction materials.

### HOW TO USE

*Dow Corning* IE-6683 Water Repellent Emulsion can be diluted with water, incorporated into building materials or used as an ingredient in the formulation of water-repellent, water-based primers, paints and coatings.

For post-treatment applications, dilutions with 3 to 10% actives content are typical, depending on the porosity of the substrate and your performance requirement. An actives level of 5% (1 part *Dow Corning* IE-6683 Water Repellent Emulsion to 7 parts water) is usually adequate for general purpose formulations.

To build hydrophobic qualities into concrete blocks, artificial stones or other building components, *Dow Corning* IE-6683 Water Repellent Emulsion can be admixed during manufacture at an actives level of 0.1 to 1%.

### 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 WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

## USABLE LIFE AND STORAGE

When stored between 0 and 25°C (32 and 77°F), *Dow Corning* IE-6683 Water Repellent Emulsion has a shelf life of 24 months from date of manufacture.

## PACKAGING

*Dow Corning* IE-6683 Water Repellent Emulsion is available in 20-, 200- and 1000-kg (44.1-, 440.9- and 2204.6-lb) containers, net weight.

## LIMITATIONS

*Dow Corning* IE-6683 Water Repellent Emulsion is not suitable for very low-porosity substrates such as polished stone.

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

## SHIPPING LIMITATIONS

None.

## HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, *Dow Corning* has an extensive Product Stewardship organ-

**Table 1: Wind-Driven Rain Resistance of Concrete Treated with *Dow Corning* IE-6683 Water Repellent Emulsion<sup>1</sup>**

Method	Test	Unit	Result
ASTM E514	Wind-driven rain resistance, penetration reduction	%	88.7
ASTM E514	Wind-driven rain resistance, leakage reduction	%	100

<sup>1</sup>Based on certified independent laboratory testing. For complete details contact a *Dow Corning* Sales Application Engineer.

ization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, [www.dowcorning.com](http://www.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 *Dow Corning*'s 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 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.

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