



Technical Data Sheet

DOWSIL™ IE 6694 Water Repellent

60% active, low-VOC, water-dilutable silicone water repellent for porous construction materials

Features & Benefits

- Low VOC – meets California South Coast AQMD requirements
- Fast beading action
- Excellent water repellency
- Water based, easy to use
- Dilutable; dilution stable
- Effective at concentrations as low as 3% actives
- No SiH – vented containers not required

Composition

- 60% active, water-dilutable silicone emulsion

Applications

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

Typical Properties

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

Property	Unit	Result
Color		Milky white
Active Ingredient	percent	60
Volatile Organic Content (VOC)		
Exclusive of Water	g/L	< 100
Inclusive of Water	g/L	59
Specific Gravity at 25°C (77°F)		1.02
pH		5–7
Flash Point, Closed Cup	°C	45
Solvent (Thinner)		Water

Description

DOWSIL™ IE 6694 Water Repellent is a 60% active, water-dilutable silicone water repellent that imparts penetrating water repellency for treatment of concrete, masonry and stone construction materials.

DOWSIL™ IE 6694 Water Repellent meets the stringent California South Coast AQMD VOC requirements for water repellent products.

How to Use

DOWSIL™ IE 6694 Water Repellent should be diluted with water to use as a post-treatment to impart water repellent properties. Dilutions from 3% to 10% actives content are typical for post-treatment, depending on the porosity of the substrate and your performance requirements. As a starting point, dilution to an actives level of 5% (1 part DOWSIL™ IE 6694 Water Repellent to 11 parts water) is usually adequate for general-purpose formulations, but it is recommended to evaluate on a small portion to determine if performance is satisfactory.

To build hydrophobic qualities into non-structural concrete blocks, artificial stones or other building components, DOWSIL™ IE 6694 Water Repellent can be included as an “admixture” at actives levels between 0.1 to 1%. The amount needed to achieve the desired performance, and the physical properties of the final materials will need to be determined for each specific application.

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

When stored between 0 and 35°C (32 and 95°F) in the original unopened container, DOWSIL™ IE 6694 Water Repellent has a usable life of 12 months from the date of manufacture.

For best results, protect from freezing. If the product does freeze, it can be reconstituted with thawing and mild agitation. Check for efficacy before use.

Packaging Information

DOWSIL™ IE 6694 Water Repellent is available in 20, 200 and 1000 kg (44.1, 440.9 and 2206 lb) containers, net weight.

Limitations

DOWSIL™ IE 6694 Water Repellent 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

Protect from freezing.

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.

dow.com

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