



## Technical Data Sheet

# DOWSIL™ 6691 Fluid

### FEATURES & BENEFITS

- Low viscosity blend
- Designed to formulate water-free formulations
- Can be further diluted with low viscosity diluent like polydimethylsiloxane fluid or non-drying oil
- Can be used to impregnate wood
- Can be applied by brushing/wiping
- Easy to use
- Wood impregnated with formulation based on DOWSIL 6691 Fluid are more resistant against capillary absorption of water
- Impregnation of wood with DOWSIL 6691 Fluid can modify appearance of treated surface
- Impregnation of wood surface with DOWSIL 6691 Fluid can provide a soft touch
- Some darkening and color enhancement can be observed upon treatment
- DOWSIL 6691 Fluid does not contain drying oil and is not film forming

### COMPOSITION

- Polydimethylsiloxane fluid and silicone resin
- Free of added solvent

Water repellent based on silicone resin in polydimethylsiloxane fluid for protection of wood against water ingress.

### APPLICATIONS

- DOWSIL™ 6691 Fluid can be used as wood impregnation water repellent.

### TYPICAL PROPERTIES

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

| CTM <sup>1</sup> | Property                | Unit  | Result         |
|------------------|-------------------------|-------|----------------|
| 0176 B           | Appearance              |       | Clear          |
|                  | Active material content | % w/w | > 99           |
| 1100 G           | Specific Gravity        | g/ml  | 1.025          |
| 0004 A           | Viscosity               | cSt   | 700 (400–1000) |
| 0006 A           | Flash Point – open cup  | °C    | > 250          |

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

### DESCRIPTION

DOWSIL 6691 Fluid is a transparent, low viscosity blend of polydimethylsiloxane fluid and silicone resin. DOWSIL 6691 Fluid can be used to impregnate wood surfaces in order to reduce their capillary water absorption.

### HOW TO USE

#### Dilution

DOWSIL 6691 Fluid is supplied as a concentrate of silicone resin in polydimethylsiloxane fluid with no added solvent. It can be applied as such or diluted in proper diluent to impregnate wood surface (DOWSIL 6691 Fluid/diluent ratio from 1:1 to 1:4). Low viscosity polydimethylsiloxane fluid can be used as diluent, as well as White Spirit. The obtained formulation can be applied by brushing or wiping.

#### Application

The formulation has to be applied until surface saturation. Excess fluid should be removed 5 to 10 minutes after application.

Impact of impregnation of wood with formulations based on DOWSIL 6691 Fluid can be dependent on the specific wood species treated. For some wood species a change in wood surface appearance can be observed.

Preliminary trials should be carried out to properly assess application conditions (diluent, quantity of formulation to apply) as well as the impact of impregnation on treated wood (reduction of capillary water absorption, color, tackiness).

## **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.**

### **USABLE LIFE AND STORAGE**

When stored in the original unopened containers, this product has a usable life of 30 months from the date of production.

### **PACKAGING INFORMATION**

This product is available in 20 kg jerry cans and 210 kg drums, net weight. Samples are available in 500 mL containers, net weight.

### **LIMITATIONS**

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

### **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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DOWSIL™ 6691 Fluid

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