



## Technical Data Sheet

### DOWSIL™ 3450 Instant FIX

DOWSIL™ 3450 Instant FIX Adhesive is a single component, polyurethane based adhesive particularly suitable for interior or exterior general construction work jobs that require high initial tack.

#### Features & Benefits

- Instant FIX
- High bond strength
- Provides excellent high initial tack
- Suitable for both indoor and outdoor applications
- Thixotropic, non-sag, ideal for vertical joints
- Low consumption, economical
- Good temperature resistance

#### Applications

DOWSIL™ 3450 Instant FIX Adhesive specifically developed:

- As contact adhesives on surfaces such as wood, particleboard, concrete, ceramic, stone and masonry tile
- Mounting wooden construction elements, wood and plaster panels, plaster ornaments and decorative wooden trimmings
- To use on foamed polystyrene and plasterboards

#### Typical Properties

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

Test <sup>1</sup>	Property — Tested at 50% RH and 23°C	Unit	Result
	Basis		Polyurethane prepolymer
	Consistency		Thixotropic
EN ISO 2811-1	Density		1.45
	Pressing Time	min	30
ASTM C679	Tack Free Time	min	20
	Application Temperature	°C	+5 to +35

1. EN: European Norm  
ASTM: American Society for Testing and Materials

Note: The above values are obtained by typical lab conditions. These values are not for use in preparing specifications. Please contact Dow representative for specification values. Pressing time depends on ambience conditions (temperature, humidity etc.) and porosity of the surfaces to be bonded.

## Typical Properties (Cont.)

Test	Property — Tested at 50% RH and 23°C	Unit	Result
	Temperature Resistance	°C	-20 to +70
	Maximum Shear Strength	(beech-beech)	
	After 24 hours	kgf/cm <sup>2</sup>	> 70

### How to Use

- The substrates must be sound, clean, dry, free of dust, oil & grease.
- The application temperature should be between 5°C and 35°C.
- Moistening the substrates slightly will provide stronger adhesion.
- Adhesive should be applied to one side in straight or wave-like form within 2 minutes. The distance between two beads should be less than 50 cm.
- Mechanical fasteners must be used to keep the materials together (1–2 hours) until the adhesive gains maximum bonding strength. Depending on weather conditions, gaining maximum bond strength will take longer duration.
- The method to bond the substrate can be done by one-way or two-way method.
- In two-way method, ensure to transfer adhesive over entire surface for optimum adhesion. Press firmly and clamp to achieve maximum bonding strength.
- One-way method is generally recommended for heavier panels and proper temporary fastening (12–24 hours) is critical to achieve desired bonding strength.
- Preliminary testing is strongly recommended to verify the suitability of materials and ensure a successful installation.
- Fresh adhesive can be cleaned with acetone.

### Required Testing in the Application

It is the responsibility of the end user to thoroughly test any proposed use of the adhesive and independently conclude satisfactory performance in the 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 at or below 25°C in the original unopened containers, this product has a usable life of 12 months from the date of manufacture. Refer to product packaging for expiry date.

### Packaging Information

This product is available in 310 ml disposable cartridges depending on location of purchase.

### Limitations

- Not suitable for polyethylene, polypropylene, nylon, ABS, PTFE
- Storage above 35°C may shorten the shelf life
- On surfaces that are continuously immersed in water
- To surfaces in direct contact with food or other food-grade applications

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, [dow.com](http://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.

Contains Diphenylmethane-4,4 di-isocyanide. Corrosive and irritating to eyes, skin and lungs. Harmful if swallowed. Wear chemical resistant gloves and eye protection when in contact. Keep container tightly closed when not in use. Prevent spillages.

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.

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