

# Technical Data Sheet



**W V C O**

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Partnering through  
service, innovation, and  
integrity

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# U-100 MBPF 4:1

## Two-Component Polyurethane Wood Filler

### DESCRIPTION

U-100 MBPF 4:1 synthetic patch is a two-component polyurethane wood filler. It works well in applications that require a long lasting, smooth wood like finish such as moulding, furniture grade plywood, door blanks, and any application where a smooth and hard surface is required. In contrast to the 6:1 MBPF product the 4:1 MBPF product reaches a much higher final hardness. It is designed with microscopic spheres to allow stain acceptance, machining, and easier sanding. U-100 MBPF 4:1 is specifically formulated to minimize product shrinkage on cure and maintains a smooth wood like finish.

### WHERE TO USE

- Moulding, Laminated Beams, Door Blanks
- Furniture Grade Milled Lumber
- Plywood Panels

### FEATURES AND BENEFITS

- Passes APA testing – quality assurance
- 4:1 Ratio – greater hardness of patch
- Micro-Spheres – stainable, easier to sand and plane
- Specifically formulated to minimize shrinkage
- Smooth wood like finish – paintable
- Fully REACH Compliant – phthalate-free

### PACKAGING

5-gallon pails  
Drums: 55-gallons  
Totes: 330-gallons

### SHELF LIFE

6 months from date of manufacture when properly stored. May require mixing after prolonged storage.

### STORAGE

Store this product in a clean, dry, shaded or covered environment above 45°F (7.2°C). DO NOT FREEZE.

## TECHNICAL INFORMATION

### TYPICAL PROPERTIES

Density – lbs. / gallon (Kg / L)	Part A Resin	9.2 (1.1)
	Part B ISO	10.3 (1.24)
Viscosity, cps, ASTM D 4878	Part A Resin	4500 +/- 500
	Part B ISO	200
Mix Ratio – Part A:B by volume		4:1
Set Time in seconds at 77°F (25°C) at 70 mils (+/- 30 seconds depending on temperature)		Available in a variety of set times.
Color		Available in a variety of colors
Hardness (Shore D scale)		55

### APPLICATION

Willamette Valley Company metering equipment is highly recommended for the application of U-100 MBPF 4:1. The metering equipment is specifically engineered for controlling the mix ratio, temperature, viscosity, and set time for U-100 MBPF 4:1. Contact your Willamette Valley Company representative for information about metering equipment.

### ADVANTAGES

Under proper surface preparation and mixing conditions, U-100 MBPF 4:1 passes American Plywood Association tests for routed defects of up to 2.25" (5.7 cm) in diameter.

The Willamette Valley Company also offers an excellent Full Service Warranty.

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### NOTES

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This product is supplied to the customer in a ready-to-use form. Any addition of water or other materials will result in degradation of the product performance.

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### HEALTH AND SAFETY

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Before handling, you should become familiar with the Safety Data Sheet (SDS) regarding the risks and safe use of this product. To obtain an SDS please call 800 333 9826 or send an email to: [msds@wilvaco.com](mailto:msds@wilvaco.com).

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### CONTACT INFORMATION

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Please see the side bar on this and the front page for the Division nearest to your location.

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