

## RAK Woodtech PU Clear Semigloss 50%

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### Product description

RAK Woodtech PU Semigloss 50% Clear is a polyurethane semiglossy varnish based on tailored polyester resin. A varnish of two component materials with excellent covering properties and optimum brilliant finish. It provides a smooth, tough, durable finish with fast drying properties. Additionally, it offers good U.V. resistance; excellent antimicrobial and antifungals properties; resistant to weathering and household chemicals.

### Typical use

Highly recommended for industrial and house furniture such as beds, cabinets, tables, chairs, sofas, doors and frames turned pieces and likes.

### Colours

Clear Finish

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### Product data

Property	Description
Gloss level (GU 60 °)	Semi Glossy (47 – 53)
Solids by Volume	37 ± 2 %
Flash point	25 °C
Density	0.95 kg/l
VOC-EU	570 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

All data is valid for mixed paint.

Gloss description: According to RAK Performance Coatings' definition.

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### Film thickness per coat

#### Typical recommended specification range

Dry film thickness	30	-	40	µm
Wet film thickness	81	-	108	µm
Theoretical spreading rate	12.3	-	9.2	m <sup>2</sup> /l

Values mentioned above are based on theoretical calculations only, practical coverage may be differing due to type of substrate, atmosphere conditions, air flow, type of gun and thickness of the film coating.

### Surface preparation

Clean / Sand wood surface (New or previously coated) initially with emery paper No. 180 and later by emery paper No. 360 or 400. Properly remove all the dust by using rags and RAK Woodtech PU Thinner. Make sure all the traces oil, dust and grease like materials before application.

Apply 2 coats of RAK Woodtech PU Sanding sealer to fill and smoothen wood surface. Recoat the sealer at the interval of 1 – 2 hour per coat. After application of each coat sand with fine emery paper until smooth uniform finish is achieved.

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### Application

#### Application methods

The product can be applied by

Spray:	Use conventional air spray or airless spray.
Brush & Roller:	Recommended only when area is not suitable for spray application

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#### Product mixing

To be mixed in 2:1 ratio by volume.

2 parts of RAK Woodtech PU Semigloss 50% Clear with 1 Part of RAK Woodtech Catalyst MS.

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#### Thinner/Cleaning solvent

Thinner: RAK Woodtech PU Thinner

10 – 20% thinner is recommended as per need.

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#### Guiding data for Conventional spray

Nozzle tip Size	:	1.4 mm
Pressure at nozzle (minimum):		40 – 50 bar

Apply this product only if relative humidity is less than 85% and substrate temperature is minimum 10° C & above 3° C of the dew point

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### Drying and Curing time

Surface Dry	15 Minutes
Tack free	30 Minutes
Full Cure	Overnight
Recoating Time (Minimum)	1 - 2 Hours
Recoating Time (Maximum)	Infinite

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, 30° C temperature and at average of the DFT range for the product.

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#### Pot Life

Temperature	:	30° C
Pot Life	:	2 - 4 Hours

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### Product compatibility

Product compatibility depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product. Some examples are shown below. Contact RAK paints for specific system recommendation.

Previous coat: RAK Woodtech PU Sanding Sealer

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### Packaging (typical)

RAK Woodtech PU Semigloss 50% Clear                      3.6 L and 18 L

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### Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

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### Shelf life at 30 °C

RAK Woodtech PU Semigloss 50% Clear                      24 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

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### Health and safety

During paint application, it is advisable to wear suitable protective guards (PPE). In case of accidental contact with eyes rinse immediately with plenty of water and seek medical advice. In case of inhalation- remove to fresh air, loosen collar and keep patient rested. Get medical treatment. For remove splashes from skin, use soap and water or approved skin cleanser. Flammable material always keeps away from sources of ignition and do not smoke. Ensure sufficient ventilation during application and drying. Do not breathe vapour/spray. Keep container tightly closed and keep out of reach of children. In case of fire - use foam, carbon dioxide or dry chemicals. For more information, refer MSDS.

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### Disclaimer

The data provided in this sheet is given to the best of our knowledge and based on laboratory testing and practical experience. We cannot guarantee anything but the product since the conditions and methods during application vary. We reserve the right to change the given data without prior notice. The product data sheet supersedes those previously issued.

For more information, contact your local RAK Paints Representative, go to [www.rakpaints.com](http://www.rakpaints.com) or call +971-7-2444036.