

RAK Woodtech PU Opaque Gloss

Product description

RAK Woodtech PU Opaque Gloss is a polyurethane glossy topcoat based on tailored polyester resin. It's a pigmented two component system with excellent covering and opacity properties, rich high gloss finish and gloss retention. It provides a smooth, tough, durable finish with fast drying properties. Additionally, it offers good U.V. resistance; resistant to weathering and resistance to 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.

Colour

As per RAK shade card

Product data

Property	Description
Gloss level (GU 60 °)	Glossy
Solids by Volume	48 ± 2 %
Flash point	25 °C
Density	1.22 kg/l
VOC-EU	477 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.

Film thickness per coat

Typical recommended specification range

Dry film thickness	30	-	50	µm
Wet film thickness	63	-	105	µm
Theoretical spreading rate	16	-	9.6	m ² /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 Primer to fill and smoothen wood surface. Recoat the primer at the interval of 3 – 4 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

Product mixing

To be mixed in 2:1 ratio by volume.
2 parts of RAK Woodtech PU Opaque Gloss with 1 Part of RAK Woodtech Catalyst PG.

Thinner/Cleaning solvent

Thinner: RAK Woodtech PU Thinner

10 – 20% thinner is recommended as per need.

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

Drying and Curing time

Surface Dry	45 Minutes
Tack free	6 Hours
Full Cure	Overnight
Recoating Time	8 Hours

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.

Pot Life

Temperature	:	30° C
Pot Life	:	6 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 Primer – 1 Coat

Topcoat : RAK Woodtech PU Opaque Gloss – 2 Coats

Apply multiple coats to achieve desired finish wet on wet. If necessary light sanding with 400 – 600 mesh is recommended before subsequent coat, when recoating time exceeds 3 hours.

Additional coat may also require in dark shades

Packaging (typical)

RAK Woodtech PU Opaque Gloss 3.6 L and 20 L

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.

Shelf life at 30 °C

RAK Woodtech PU Opaque Gloss 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.

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.

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 or call +971-7-2444036.

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