

# UNIKOTE PRO

## TECHNICAL DATA SHEET

### Product description

Bi-component high build epoxy coating with a double function: protection and finish. It can be applied on every type of pre-existing varnish, as long as well adherent and aged. Direct adhesion on gelcoat, steel and light alloy, applied with low and high thickness either. Unikote PRO is characterised by very high chemical-physical resistance is resistant to atmospheric agents, immersion, footfall and abrasion. New formula with limited carbonation of amines, which allows a coverage with topcoats without staining, reduced whitening (blushing), and applicable as professional finish even if its glowing fades more quickly than a topcoat. Ideal coating for all work boats, for the duration of protection, applicability in non-ideal thermo-hygrometric conditions and practice use of a single product for the protection of bottom, topsides, deck and internal parts.

### Product information

Finish	Semi-gloss	
Colour	Ice white .154, Grey MM .750	
Solids (by volume)	ASTM D2369	80 ± 2%
Specific gravity	UNI EN ISO 2811-1	1,40 ÷ 1,45 g/cm <sup>3</sup>
Flash point	UNI EN ISO 13736	35 °C
VOC (calculated average content)	ISO 11890-2/2006	188 g/l
Packaging	5,00 Lt	

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### Application and use

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#### **SURFACE PREPARATION**

For surfaces already treated with products in bad condition, it is important to completely remove the old cycle, up to the substrate.

**Steel:** Wash by pressure with clean water and remove all traces of oil and grease (if necessary, wash with a specific solvent). All surfaces to be painted must be clean, dry and free of contaminants. Areas protected by shop primers can be directly covered. On areas with oxidation principles and/or residues from hot working of the metal, a coarse-grained abrading (mechanical cleaning) treatment at grade ST2 (SIS 05.59.00 1967) must be carried out. Before applying the paint products, blow with clean, dry air in order to remove any residual sanding and any dust or dirt.

In the case of new constructions, cover the surface prepared to the standard required in specification.

**Aluminum:** Clean the surface as for steel. Be careful not to polish the surface without exceeding the incision. Before applying the paint products, blow with clean, dry air in order to remove any sanding, dust or dirt residual.

**Fiberglass:** Degrease the surface to be treated with solvent or a suitable detergent. Pressurize with fresh water and remove all traces of oil and grease. All surfaces to be painted must be clean, dry and free of contaminants. Sand down with sandpaper no. P150 - P180; blow the surface with clean, dry air in order to remove any residue of dust or dirt.

**New or renewed wood:** The humidity level of the substrate must not exceed 18%. All surfaces to be painted must be clean, dry and free of contaminants. Sand down with paper no. P80 - P120. Before proceeding with the application, blow with clean and dry air in order to remove any residue of sanding and dirt.

#### **APPLICATION PROCEDURE**

Mix carefully the two components until complete homogeneity . Generally no dilution is required; if necessary add Diluent 6610. In the hull, apply at least 2/3 coats with a thickness of 400 µ directly on the old surface. It is advisable to cover the last coat of Unikote PRO, when it does not leave any marks I.e after about 6/8 hours at a temperature of 20°C with a relative humidity of 60-70%. To ensure the best results, this product must be applied when the temperature of the substrate is above 7°C. In any case, this temperature must be at least 2°C higher than the dew point of the surrounding air.

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Covering times are as follows: minimum: 4 hours; Unikote PRO on itself unlimited; antifouling and other mono and bi-component products maximum 24 hours only for small areas and touch-ups, otherwise apply 1 coat of Adherglass (15 microns) or 1 coat of Ticoprene (50 microns) before antifouling.

### Application data

Mixing ratio by volume		4:1
Mixing ratio by weight		87 w/w 13 w/w
Base (comp. A) 6485.--- Hardener (comp. B) 6485.999		2 h a 20 °C
Pot-life NB: do not use this product when Pot-life time is exceeded		
Thinner/Cleaning tools NB: the indicated dilution % is considered on the catalyzed product		<b>6610</b> – Roller/Brush <b>6610</b> – Conventional spray/Airless
Application methods		Conventional Pressure 3,5 bar Nozzle 1,8 – 2,5 mm
		Airless Pressure 150 bar Nozzle 0.3 – 0.6 mm Angular range : 65° - 80°
		
Dry film thickness per coat	Standard application range	140 – 160 µm
	Recommended	150 µm
Wet film thickness per coat	Standard application range	175 – 200 µm

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	Recommended	190 µm
Theoretical coverage	150 µm	5,3 m <sup>2</sup> /l
Practical coverage (loss value 30%)	150 µm	3,7 m <sup>2</sup> /l
Notes	This product is provided in two tins to be mixed entirely and carefully before use. In case it is required, dilution has to be performed after the mixing of the two components. The physical data of two-component products refer to components that have been already mixed.	

### Drying time

Temperature °C			10		15		20		30	
			Min	Max	Min	Max	Min	Max	Min	Max
Coverage	Epoxy products or polyesters		24 h	NL	18 h	NL	12 h	NL	6 h	NL
			Full curing		14 days	10 days	7 days	3 days		

**N.B.** *The drying times and the overcoating intervals increase with higher thickness of the applied film. Always check that the existing painting film is perfectly dry before applying a further product coat.*

### CONDITIONS DURING APPLICATION

In order to avoid the formation of condensation, the surface temperature should be at least 3 °C above dew point. During application and curing, the min. ambient temperature must not be lower than 10 °C or higher than 30 °C; substrate temperature must not be lower than 5 °C, since curing is remarkably reduced at lower temperatures.

Application is not advisable when relative humidity exceeds 80%. The term-hygrometric survey should be carried out near the surface to be coated. Make sure there is enough ventilation when the application takes place in closed areas.

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### Storage

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It is recommended to avoid exposure to air and extreme temperatures. To maximize the shelf life in the can, it is worth checking that the container is well closed during the storage and the temperature is between 10 °C and 35 °C. Avoid exposure to direct sunlight.

### Safety rules

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Observe the provisions of DPR 303 and 547. Avoid contact with the skin, for example. Operate in well ventilated places and, if in closed areas, use vacuum cleaners, fans and air conveyors. During the application use appropriate protections (masks, gloves, glasses, etc.). Before using, read sections 7-8 of the SDS.

#### INSTRUCTIONS FOR THE DISPOSAL OF PRODUCTS AND PACKAGING

Empty packaging that contained products: Dispose of empty packaging according to the requirements of the waste disposal law, for example by taking them to the recycling center.

Packages containing the unused products: Dispose of the unused product in accordance with the law of disposal of such waste, for example by taking it to a recycling center, recycling of packaging is prohibited in this case. Do not empty into drains or watercourses. Product packaging must be kept indoor, and the temperature in the storage place must be between 10 °C and 35 °C. Do not expose to sunlight.

### Notes

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The values indicated in the present technical sheet can have slight variations from one batch to another. All data refer to the mixed product. The applied product must not come in contact with water, chemicals or subjected to mechanical stress before the curing is complete. The above information is the result of accurate laboratory tests and practical experience; however, since the product is predominantly used outside the manufacturer's control, Boero Bartolomeo S.p.A. can only guarantee its quality. The information contained in this sheet may be subject to revision by the Company. For clarification, updates or further information, it is recommended to contact Boero Bartolomeo S.p.A. directly. The present datasheet annuls and replaces every other precedent to this one.