



# YachtCoatings UNDERCOAT PRO TECHNICAL DATA SHEET

## Product description

Undercoat Pro is an acryl-polyurethane undercoat with the characteristics of a filling undercoat or an undercoat enamel according to the dilution. It can boast an outstanding adhesion on both epoxy and polyester products like well-seasoned gelcoat. Undercoat Pro has a high dry residue and it is available in two colours (white and black) that can be mixed to obtain various shades of grey, facilitating further coatings with products with little covering properties. It has a semi-glossy finish which accentuates the preparation of the surface, as well as excellent response to sanding. It is recommended to use it as an undercoat because it makes the following finishes stand out.

## Product information

Finish	Semi-gloss		
Colour	White .001, Grey .359		
Solids (by volume)	ASTM D2369		60 ± 2%
Specific gravity	UNI EN ISO 2811-1		1,40 g/cm <sup>3</sup>
Flash point	UNI EN ISO 13736		23 – 55 °C
VOC (average calculated content)	ISO 11890-2/2006		360 g/l
Packaging	2,5 Lt		

## Application and use








### SURFACE PREPARATION

It is advisable to apply Undercoat Pro on surfaces that have been previously treated with well cured and seasoned products. Sandpaper with P220-240 abrasive paper (in dry condition) Surfaces must be clean and adequately prepared. Before application, make sure that all surfaces are perfectly dry, clean and with no traces of oil, grease or other contaminants.



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**Application data**

Mixing ratio by volume		4:1
Mixing ratio by weight Base (comp. A) 670.--- Hardener (comp. B) 670.000C		83 w/w 17 w/w
Pot-life NB: do not use this product when Pot-life time is exceeded		2 hrs at 20 °C
Thinner/Tool cleaning N.B: the indicated dilution % is considered on the catalyzed product		<b>Thinner PRO 698 15 - 25 % isolating</b> <b>Thinner PRO 698 5 - 15 % filler</b>
Spray viscosity		18" – 25" DIN 4 at 20° C Based on use
Application methods		Conventional Pressure 3,5 bar Nozzle 1,7 – 2 mm
		Air mixed Pressure 3,5 bar Nozzle 1,3 mm – 1,5 mm
Dry film thickness per coat	Application standard range	80 – 120 µm (isolating) 120 – 200 µm (filler)
	Recommended	100 µm (isolating) 150 µm (filler)
Wet film thickness per coat	Application standard range	130 – 200 µm (isolating) 200 – 330 µm (filler)
	Recommended	170 µm (isolating) 250 µm (filler)
Theoretical coverage	100 µm	6 m <sup>2</sup> /l
	150 µm	4 m <sup>2</sup> /l



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Practical coverage [loss value 30%]	100 µm 150 µm	4.2 m <sup>2</sup> /l 2.8 m <sup>2</sup> /l
Recommended primers	Epoxy undercoats and primers, gelcoat, etc.	
Notes	<p>This product is provided in two cans that have to be accurately and completely mixed together before use. Dilution, if required, can be carried out after mixing the two components.</p> <p>Physical data of two-component products refer to components that have been already mixed together.</p>	

### Drying time

Temperature °C	10		15		20		30	
	Min	Max	Min	Max	Min	Max	Min	Max
Wet-on-wet coverage			60'	240'	30'	120'	20'	90'
Sanding			48 h		24 h		24 h	
Full curing			7 days		7 days		7 days	

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





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### **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 15° C or higher than 30° C; substrate temperature must not be lower than 10° 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 application takes place in closed areas.

### **Storage**

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**

Comply with the provisions set by the local health and safety at work regulations. 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 a recycling centre.

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 centre, 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.



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## Notes

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The values indicated in the present technical sheet can have slight variations from one batch to another. The applied product must not come in contact with water, chemicals or be subjected to mechanical stress before the curing is complete. Wet film thicknesses refer to a product that has not been diluted. With dilution, this value will rise. 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.