



# TECHNICAL DATA SHEET

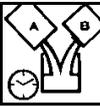
## 673. CHALLENGER PRO

Challenger Pro is a twin-component poly-acrylic enamel conceived for marine environments. It has outstanding brightness, expansion and coverage characteristics. It is characterised by excellent resistance to ultra-violet rays and weather. Challenger Pro is produced by means of the Challenger Mix tintometric system, that allows obtaining more than 8,000 colour shades.

### CHEMICAL-PHYSICAL DATA (@ 20° C)

Appearance	Glossy
Colour	Card and tintometric system colours
Solids (in volume)	45 ± 2 %
Specific weight	1.0 ÷ 1.2 Kg/dm <sup>3</sup>
Flash point	23 – 55° C

### APPLICATION DATA

Mixing ratio (in volume)		2:1 volume			
Base (A component) Catalyst (B component)		673.--- 674.---	White 70 pp 30 pp	Colours Dark 66 pp 33 pp	100 pv 50 pv
Pot-life of the catalysed product		2 hrs @ 20°C			
Thinner NB: the indicated thinning % refers to the catalysed product		15 - 25°C Thinner Pro (max. 20 -30 %) 25 - 35°C Thinner Pro Slow (max. 20 -30 %)			



YachtCoatings

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Spray viscosity		14" – 16" DIN 4 @ 20° C
Application methods		Conventional Pressure 3.5 bar Nozzle 1.4 mm 2 wet-on-wet passes = 50 µm, dry
		Air mixed Pressure 3.5 bar Nozzle 0.7 mm - 1.1 mm 2 wet-on-wet passes = 50 µm, dry
Dry film thickness	Standard application range	40 - 60 µm
	Recommended	50 µm
Theoretical coverage at recommended thickness	m <sup>2</sup> /litre	9
Practical coverage at recommended thickness (30% loss)	m <sup>2</sup> /litre	6.3
Recommended primers	Epopoly – Challenger UC	
Notes	The product is supplied in two containers, the contents of which must be entirely and carefully mixed before use. Any thinning must be performed after the two components have been mixed. The physical data of twin-component products are pertinent to already mixed components.	

### SURFACE PREPARATION

	<p>It is advisable to apply Challenger Pro on surfaces previously treated with Epopoly or Challenger Pro UC recommended undercoat enamels. Sand using P320-400 abrasive paper (dry reference). Surfaces must be suitably prepared and cleaned. Before carrying out the painting, check that all the surfaces are absolutely dry, clean and free from oil, grease or other contaminants.</p> <p>Apply the enamel on compatible primers with suitable and uniform colour shades.</p>
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### DRYING TIMES

Temperature [°C]		10		15		20		30	
		Min	Max	Min	Max	Min	Max	Min	Max
Wet-on-wet cover				30'	120'	20'	90'	15'	60'
Sanding				48 hrs		24 hrs		24 hrs	
Polishing						24 hrs			
Full reticulation				7 days		7 days		7 days	

### CONDITIONS FOR THE APPLICATION

In order to prevent the formation of condensate, the temperature of the surface must be at least 3° C higher than the dew point. During the application and the reticulation period, ambient temperature must not be lower than 15° and must not exceed 30° C; the minimum temperature of the surface must not be lower than 10° C, since the reticulation process is significantly slowed at low temperatures.

It is not advisable to proceed with the application when relative humidity exceeds 80%. It is essential to perform the measurement of thermal and hygrometric parameters near the surface to be treated. Make sure proper ventilation is available when paint is applied indoors.

### SAFETY RULES

	Observe the provisions of the DPR nr. 303 and 547 (e.g. avoid skin contact with the product). Operate in well-ventilated areas and - for indoor works - use exhausters, fans and air conveyors. During the application, use suitable protective devices (masks, gloves, goggles, etc.).
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### NOTE

	<p>The applied product must not come into contact with water or chemical products and must not be subject to mechanical stresses before full reticulation is achieved. Wet film thicknesses are to be intended as referred to the non-thinned product. Such value will increase with thinning. The material that is the subject of this document has been tested and successfully met the qualitative supply requirements. Colours produced at different times, even with modern technologies, might show different shades, even though their <math>\Delta E</math> values remain within acceptable limits. It is advisable avoiding the application of different lots in the last finishing coat and also taking care to apply the same lot of the finishing coat to particulars, such as hatches, grates, etc., which are normally treated at different times and places. <u>For touch-up or polishing interventions it is essential to follow the procedures indicated by Boero Bartolomeo.</u> Boero considers itself not responsible for any issues associated with colour differences. The above information is the result of careful laboratory tests and practical experiences but, since the product is mostly used outside the control of the manufacturer, Boero Bartolomeo S.p.A. can only guarantee its quality. The information included in this sheet may be subject to revision by the Company. Additional notes are reported in the "general recommendations"; as regards to reference standards, please refer to the legend for technical data sheets. For any clarification, update or additional information it is advisable to directly contact Boero Bartolomeo. This sheet voids and replaces any other previous issue.</p>
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