



YachtCoatings

TECHNICAL DATA SHEET

678.200 CHALLENGER HS CLEAR







Challenger HS Clear is a two component polishable polyacrylic clear coat high solid. Developed for double coats system (to overcoat Challenge HS SE). Contains excellent characteristics against UV light and other marine environment influences.

Packaging	0,79 U.S. gallons (3 Lt) 0,39 U.S. gallons (1,5 Lt)
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PHISICAL ASPECTS at 68 F (20° C)

Aspect	Gloss
Colour	Transparent
Volume solid %	55 ± 2 %
Specific weight	63 ± 64,26 pound/feet ³ (1,00 ± 1,02 Kg/dm ³)
Flash point	73,4 – 131 F (23 – 55° C)
Viscosity	70" DIN 4 at 68 F (20° C)

APPLICATIONS DETAILS

Mixing ratio (by volume)		2:1 with 679.200
Pot life	2 h depend on temperature	
Thinner		Temp < 64,4 F (18° C) – 696.000 (max 30%) Temp > 64,4 F (18° C) – 697.000 (max 30%)
Spray Viscosity		15" – 20" DIN 4 at 68 F (20° C)
Applications		Conventional Pressure 50 psi (3,5 bar) Gun 0,05 inch (1,4 mm) Coats ½ + 1 = 2 mils (50 µm) dry
		Mix Air Pressure 50 psi (3,5 bar) Gun 0,02 – 0,03 inch (0,7 – 1 mm) Coats ½ + 1 = 2 mils (50 µm) dry
		Thinner 697.000 (max. 15 %)
Dry film thickness	Standard range of application	1,6 – 2,4 mils (40 - 60 µm)
	Recommended	2 mils (50 µm)
Wet film thickness	Standard range of application	2,8 – 5 mils (70 - 125 µm)
	Recommended	3,6 mils (90 µm)
Theoretical coverage sq feet/gallon	Range of application at recommended thickness	448,18 (11 m ² /Liter)
Recommended Primers	Challenger HS SE – Challenger HS	
Note	The product is provided in two tins to be mixed entirely and carefully before usage. The eventual dilution must be done after mixing the two components. The physical data of two-component products are related to the components after they have been mixed together.	




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SURFACE PREPARATION

	Apply onto a suitable clean and dry undercoats, sanded with sandpaper n ° 320 - 400. Finishing double layer: apply one coat (two or three coats wet on wet) of base matt 675 / ... then apply following the overcoating interval with Challenger HS Clear cod. 678.200.
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DRYING TIME

Temperature F	50 (10°C)		56 (15°C)		59 (20°C)		86 (30°C)	
	Min	Max	Min	Max	Min	Max	Min	Max
Overcoating interval (wet on wet)			30'	120'	20'	90'	15'	60'
Sanding time			48 h		48 h		36 h	
Polishing time					48 h			
Fully cured			7 days		7 days		7 days	


CONDITIONS DURING THE APPLICATION

To avoid the formation of condensation, the temperature of the surface should be at least 37,4 F (3° C) above dew point. During the application and curing the min. ambient temperature must not be lower than 56 F (10° C) or higher than 86 F (30° C); substrate temperature must not be lower than 50 F (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 the application takes place in closed areas.

SAFETY RULES

	In order to protect personal health it is advisable to comply with the EU DPR 303 and 547 regulations. Avoid, for example any contact of the product with the skin and eyes. In case of contamination or with oral contact, immediately contact a doctor. Use in well ventilated areas, in enclosed areas use aspirators, fans and air ventilators. Wear masks, goggles, gloves while applying the product.
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NOTES

	The applied product must not come in contact with water, chemical products or submitted to mechanical stress before the curing is completed. The wet film thickness is referring to an undiluted product. In case of dilution, this value increases. The above information is given to the best knowledge of Boero Bartolomeo Spa, based on laboratory tests and practical experience. However, as the product is often used under conditions beyond our control. Only the quality of the product can be guaranteed. Boero Bartolomeo Spa reserves the right to change the given data without notice. Further notes can be found in the "General recommendations" in the Supernavi paint website. For explanations, updates or further information we advise you to directly contact Boero Bartolomeo Spa The present datasheet annuls and replaces every other precedent to this one.
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