CHALLENGER UV

70P.685

Description

Two-component, polyurethane transparent varnish with excellent gloss retention, elasticity and abrasion resistance.

Use

Clear varnish for all wood types and as a clearcoat on other substrates, such as composites. Can be used in areas of high abrasion such as hand and capping rails.

Informations

Finish	Glossy	
Colours	.000 Colourless	
Pack	0,75 l	
Solids by Volume	45 ± 2%	ISO 3233-2
Specific Gravity	1.04 – 1.1 g/cm^3	ISO 2811-1
Flash Point	30 °C	ISO 3679
VOC	480 g/l	Calculated
Shelf Life	Comp. A 36 months Comp. B 24 months	

Application

SURFACE PREPARATION

The humidity content in the wood must be below 18%. All surfaces must be perfectly clean, dry and free of oil, contaminants and old painting before application of recommended products.

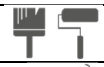
NEW BUILD

Complete sanding with sandpaper grade P120 - P180. Remove all traces of dirty, oil, resin. Take special care to remove any residual sand dust or dirt from the wood pores by using dry air or alcohol. 24 hours after the product application, lightly abrade with sandpaper grade P320-P400.

MAINTENANCE

Remove all trace of contamination, grease and oil by high pressure freshwater cleaning. Proceed with degreasing or solvent cleaning if necessary and repeat freshwater cleaning. All surfaces must be clean, dry and free of contaminants. Remove old dark watermarks with T-Bleaching or alternatively, hydrogen peroxide 80 volume. Remove all loose / poor adhered paint and varnishes by abrading with sandpaper grade P180 - P240. In case the wood pieces are glued, sand in both directions. Take special care to remove any residual sand dust or dirt from the wood pores by using dry air or alcohol. Sanding between coats with Scotch-Brite grade fine.

How to Apply

Standard 	Brush and roller
Conventional Spray 	Pressure 3,5 bar Nozzle 1,3 mm N°2 coats wet on wet = 50 µm dry

Film Thickness per Coat

DFT	Recommended: 50 µm Standard application range: 40 - 60 µm
WFT	Recommended: 110 µm Standard application range: 90 - 130 µm

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Additional Application Information

Theoretical spreading rate	Application range at the recommended thickness: 50 µm - 9 m2/l
Thinner	15 – 25 °C Thinner 698 (5 – 15% max) 25 – 35 °C Thinner PRO Slow 697 (5 – 15% max)
Hardener	685.000C – CHALLENGER UV COMP. B
Mixing ratio by volume	2:1
Mixing ratio by weight	66:34
Pot-life at 20 °C	3 h
Spray viscosity	15" – 20" DIN 4 at 20° C

Compatibility

Previous Coat

Polywood

Subsequent Coat

N.A.

Application notes

Mixed material must be filtered before application. Typically apply 2 or 3 coats wet on wet, to achieve the total recommended thickness and uniform coverage.

General notes

Prepare the painting by mixing the components in the correct proportions. It is recommended to mix complete kits to avoid a wrong mixing ratio that may reduce the paint designed performance. If less paint is needed, smaller amount may be prepared in a mixing ratio cup. Dilute the mixed product, not the components separately. Practical spread rate will vary according to spray equipment, application techniques, thinning and environmental conditions. Given recoating times are indicative, as it can vary according to actual thickness applied, weather conditions, painting plan and project size.

Contact your local Boero office or representative for further information.

Drying Time

	10 °C		15 °C		20 °C		30 °C	
	Min	Max	Min	Max	Min	Max	Min	Max
Overcoating interval	N.A.	N.A.	8 h	3 days	6 h	2 days	6 h	2 days
Sanding	N.A.	N.A.	36 h	36 h	24 h	24 h	18 h	18 h
Complete curing	N.A.	N.A.	7 days	7 days	7 days	7 days	5 days	5 days

N.B. The drying times and the overcoating intervals increase with higher thickness of the applied paint film. Always check the existing paint film is dry before applying any further product coats.

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Conditions during application

During application and curing:
Ambient temperature: minimum 15 °C, maximum 35 °C. Painting at higher temperatures may lead to a poor film formation.
Substrate temperature: minimum 15 °C, maximum 35 °C.
Avoid the formation of condensation, the surface temperature should be at least 3 °C above dew point.
Relative humidity: minimum 35%, maximum 70%.
Painting area should be well ventilated during application and drying/curing.

Storage

It is recommended to avoid exposure to air and extreme temperatures. To maximize the shelf life in the can, check that the container is closed during the storage and the temperature is between 5 °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, operate in well-ventilated places and, if in closed areas, use vacuum cleaners, fans and air conveyors. During the application use appropriate PPE - Personal Protections Equipment (masks, gloves, glasses, etc.). Before using, read sections 7-8 of the SDS
INSTRUCTIONS FOR THE DISPOSAL OF THE BIOCIDAL PRODUCTS AND PACKAGING
Empty packaging containing biocidal products: disposal of empty packaging according to the requirements of the waste disposal law, for example by taking them to the recycling centre. Packages containing the unused biocidal product: Dispose of the product not used 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.
INSTRUCTIONS FOR THE SAFETY SECURITY OF THE BIOCIDAL PRODUCTS AND PACKAGING
Empty containers and containers still containing the biocidal product: Packaging must be disposed of as hazardous waste under the full responsibility of the holder of such waste. Do not empty into drains or watercourses.

Disclaimer

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 subjected to mechanical stress before the curing is complete. The wet film thickness refers to the undiluted product. In case of dilution, this value increases. 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 their 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.