CHALLENGER PRO BRUSH



70P.679

Description

Two-component premium, high gloss polyurethane acrylic topcoat designed for brush and roller application, with excellent aesthetical finish, gloss and colour retention. Challenger Pro is available through the Challenger Mix tintometric colour system.

Use

Brush and roller application high gloss topcoat.

Informations

Finish	High gloss		
Colours	Colour card and tintometric system		
Pack	11		
Solids by Volume	50 ± 5%	ISO 3233-2	
Specific Gravity	$1.0 \div 1.2 \text{ g/cm}^3$	ISO 2811-1	
Flash Point	23 - 55 °C	ISO 3679	
VOC	450 g/l	Calculated	
Shelf Life	Comp. A 6 months		
	Comp. B 24 months		

Application

SURFACE PREPARATION

All surfaces must be perfectly clean, dry and free of oil and contaminants before application of recommended products. Existing paint/materials must be dry, undamaged and compatible. For optimum performance of the topcoat system, undercoats Epoply or Undercoat Pro are recommended. Undercoats must be cured before sanding: at 20°C, for Epoply minimum drying time 3 days, recommended 7 days, allow 14 days of curing for maximum DOI performance. Sanding sequence should be followed to achieve maximum gloss and image distinction. Avoid skipping more than 100 μ m between sanding grade steps. Start with manual sanding/cornering, followed by mechanical sanding with an orbital sander 2mm or 3mm. Recommended roughness after sanding is 5 - 7μ m (Rz). Minimum dry film thickness of undercoats after sanding is 80 μ m. Supplied air for surface preparation and cleaning must be dry and clean.

NEW BUILD & MAINTENANCE

Primers and Undercoats: clean, dry and undamaged compatible primers or undercoats, uniformingly abraded with sandpaper grade P₃₂₀- P₄₀₀.

Challenger Pro show-coat: clean and dry Challenger Pro show-coat, uniformingly abraded with sandpaper grade P320-P400. Best aesthetic appearance will be achieved by using a solvent-resistant polyurethane roller for first coat, immediately tip-off with a dry brush. Finish with vertical brush strokes. Use a flat brush Spalter type. Apply the first coat at minimum dilution to achieve a deep coverage. After drying, abrade the surface with sandpaper grade P400-P500 and apply the following coats until the desired coverage is obtained. Dilution can be increased to promote expansion.

Testing on a non-critical area should be carried out to test compatibility.

Polishing: follow Boero Polishing Procedure.

How to Apply

Standard	47	Brush and roller

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Film Thickness per Coat

rium mickness per coat	
DFT	Recommended: 35 µm Standard application range: 30 - 45 µm
WFT	Recommended: 70 µm Standard application range: 60 - 90 µm

Additional Application Information

Additional Application mornation				
Theoretical spreading rate	Application range at the recommended thickness:			
1 5	35 μm - 14 m2/l			
Number of Coat Recommended	2/3 coats			
Thinner	Thinner PRO Brush 694 (5 – 15 % max)			
Mixing ratio by volume	3:1			
Hardener	P679.999 HARDENER PRO BRUSH			
Mixing ratio by weight	White colours - 78:22 Dark Colours - 75:25			
Pot-life at 20 °C	2 h			

Compatibility

Previous Coat

Epoply, Undercoat PRO

Subsequent Coat

N.A.

Application notes

After undercoats sanding, application of topcoats should be done within maximum 15 days, to ensure a proper adhesion.

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 protection. If less paint is needed, smaller amount may be prepared in a mixing ratio cup. Dilute the mixed product, not the components separately. Thinner proportion is related to temperature and relative humidity conditions during application and drying. Total film thickness to be achieved in 2 or 3 coats, allowing the surface to dry and sanding between coats with P320–P400.

The physical data of two-component products refer to components that have been already mixed. Contact your local Boero office or representative for further information.

Drving Time

	10 °C		15 °C		20 °C		30 °C	
	Min	Max	Min	Max	Min	Max	Min	Max
Sanding/overcoating interval	N.A.	N.A.	72 h	N.A.	48 h	N.A.	36 h	N.A.
Complete curing	N.A.	N.A.	7 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.

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