Technical Data Sheet

Product Group

Polyurethane Top Coat

Characteristics



Product Information

Components



Thinner

FACC

Specifications



C	ations	Airbus
	Qualified Product List	Airbus
		Airbus

Three-component water-based semi gloss polyurethane topcoat used for the commercial interiors of aircraf passenger cabins. Can be applied with cabin interior primers FR1-55 and FR4-45.						
Page						
Base	FR6-55 Base					
Hardener	FR6-55 Hardener					

Water

AIMS 04-08-002 et ABS 5650B
CML 16-047
CML-04-JMD9
FMS5550 Class 2

Meets the following requirements: JAR/FAR Section 25 Paragraph 25.853

Product specifications are constantly changing, to ensure the most accurate information regarding specifications, please check our online qualified product list (QPL) at aerospace.akzonobel.com/products.

Surface Conditions



Surface Preparation/ Cleaning

Can be applied on phenolic and plastic composites and to aluminium. For surfaces that require surface preparation, the use of FR1-55 or FR4-45 filler is recommended.

Application on a composite substrate (new or reworked): FR4-45 (or FR1-55) is used as a filler/surfacer (see product Technical Data Sheet for surface preparation). FR4-45 (or FR1-55) should be sanded with a P240 to P400 grade abrasive paper and cleaned with isopropyl alcohol.

Application on a plastic substrate (new or reworked): Except where there are surface defects, FR6-55 can be applied directly onto thermoplastics. The substrate should be sanded with P240 to P400 grade paper. It should then be blow dried and cleaned with isopropyl alcohol.

Application on aluminium:

FR6-55 should be applied on:

- Surface treatment (OAC, Alodine1200, etc.) primed with epoxy corrosion resistant primer (F69)
- The primer should be dried for a minimum of 1 hour at 60°C before applying the top coat.

All recommendations mentioned above are given for information. In the event of a defect, contact your Quality Department.

Instruction for Use			
Spray Application (Mix Ratio)		Weight	
	FR6-55 Base	100 parts	
	FR6-55 Hardener	20 parts	
	Water	15 - 25 parts	
	MIXING PROCEDURE Ideally, the unmixed products should be stored between 18°C and 25°C (64°F and 77°F) for 24 hours before use. - Mixing by weight is recommended. - Mix the base and hardener until the mixture is homogeneous. Then add the water and mix. - The mixture must be made at a temperature between 15°C and 35°C (60-95°F).		
		xture using a 90-150µm (3.5-6 mils) filter. o variation in colors density. In case volume ratio is needed, please n the color code of your product to obtain the correct volume mixing	
Induction Time	Not Applicable.		
Initial Spraying Viscosity (20°C/68°F)	Spraying viscosity at 20°C / 68°F Dilution rate by weight ISO 6 20-25 % 22s ± 5s		
Note	Viscosity measurements are provided as guide Certified information is provided by certification of	elines only and are not to be used as quality control parameters. documentation available on request	
Pot life (23°C/73°F)	3 hours at 23°C for a 25% dilution.		
Note	The range of dilution must be used to adjust vis	e recommended range of viscosity to ensure compliant application. scosity to reach the recommended one. Water based paints show a e can vary according different parameters such as: type of mixing, een mixing and viscosity measurement.	
Dry Film Thickness (DFT)	30 – 60 μm 1.2 – 2.4 mils		
Wet Film Thickness (WFT)	90 – 170 μm 3.5 – 6.7 mils For a dilution of 15%		



Brush Application (Mix Ratio)		Weich4	
		Weight	
	FR6-55 Base	100 parts	
	FR6-55 Hardener Water	20 parts 5 - 15 parts	
	Water	5 - 15 parts	
	*Thinner : Water		
	MIXING PROCEDURE Ideally, the unmixed products should be stored at between 18°C and 25°C (64°F and 77°F) for 24 hours before use. Mixing by weight is recommended. Mix the base and hardener until the mixture is consistent. Then add the water and mix. The mixture must be made at a temperature between 15°C and 35°C (60-95°F).		
	Do not hermetically close TUK after mixing base and hardener.		
Note	Not Applicable.		
Pot life (23°C/73°F)	1 hour at 23°C (73°F) for a 5% dilution.		
Dry Film Thickness (DFT)	30 – 60 μm 1.2 – 2.4 mils		
ψ Wet Film Thickness (WFT)	90 – 170 μm 3.5 – 6.7 mils For a dilution of 15%		
Application Recommendations			
Conditions	Temperature:	15 – 35 °C 59 – 95 °F	
	Relative Humidity:	20 – 70 %	
Conditions	careful to ensure a satisfactory result. Ple	litions outside the limits shown above. However, it is recommended to be ase contact your local AkzoNobel Aerospace Coatings representative to iniques when environmental conditions are outside of the recommended	
Equipment Recommendation	Gravity spraygun Nozzle 1.5 to 2 mm.		
Number of Coats	Follow the recommendations above and appendix psi) dynamic, to achieve the required thickn	pply the product in crossed coats at a pressure of 3 bar (44 psi) +/- 0.5 (7 ness (approximately 2 crossed coats for 60 μ m or 2.4 mils dry).	
	For a smooth appearance: Apply 1 to 2 crossed coats.		
	- Fine texture : Reduce the air pressure to from the substrate	wait 30 to 45 minutes for the film to achieve a semi gloss appearance 0 1.5 to 2 bar (22 to 29 psi) (0.7 to 0.9 dynamic bar) and apply at 50 cm to 1.0 to 1.5 bar (15 to 22 psi) (0.4 to 0.7 dynamic bar) and apply at 20	

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Cleaning of Equipment

Clean the equipment with tap water then with a suitable cleaning thinner.

Note

Spray with dry, oil-free air. Indicated pressures for textures are indicative and have to be adjusted according to application conditions (type of spray gun).

Physical Properties

	Drying Times		23°C/73°F	40°C/104°F	60°C/140°F	80°C/176°F
\Box		Dust Free	30 minutes	N.A*	N.A*	N.A*
		Dry to Handle	4 to 5 hours	2 hours	1 hour	N.A*
		Full Cure	7 days	3 days	12 hours	8 hours
and	Note	Spray with dry, oil-free air. Indicated pressures for textures are indicative and have to be adjusted according to application conditions (type o spray gun).				
M ²	Theoretical Coverage	9 m²/kg for 40 μm (1.6 mils) dry (base and hardener undiluted). The theorical consumption value doesn't take into account the transfer efficiency for spray application.				
kg lμm	Dry Film Weight	1.8				
voc	Volatile Organic Compounds	60 g/l or 0.5 lbs./gal (ISO11890-1) and 150 g/l or 1.2 lbs./gal (ASTM D3960).				
GU	Gloss	12-18 GU (smooth) at 60°, 7-11 GU (textured) at 60°.				
(A)	Flash Point	FR6-55 Base	>10	0°C (212°F)		
		FR6-55 Hardener	>60	°C (140°F)		
		Water	N.A			
\bigcirc	Storage	Store the product dry and at a temperature between 5 and 35°C / 41 and 95°F per AkzoNobel Aerospace Coatings specification. Store in the original unopened containers. Storage temperature and shelf life may vary per OEM specification requirements. Refer to the container label for specific storage life information.				
	Shelf life 5 - 35°C (41 - 95°F)	FR6-55 Base	12 M	Months		
		FR6-55 Hardener	12 r	nonths		
		Water	N.A			
Safety Precautions		Comply with all local safety, and label of the individual p	disposal and transp roducts carefully befo	ortation regulations. ore using the products	Check the Material S s. The MSDS's are a	Safety Data Sheet (MSDS) vailable on request.

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IMPORTANT NOTE

The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given is subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product. Brand names mentioned in this data sheet are trademarks of or are licensed to AkzoNobel

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