## Alumigrip 4200

### **Technical Data Sheet**

Product Group	Polyurethane Top Coat         Alumigrip 4200 is a 3-component Low VOC (high solid) durable polyurethane topcoat that provides premium gloss and Distinctness of Image (DOI) designed to meet and exceed the expectations of the General Aviation (GA) industry.         - Optimal application properties in different environmental conditions         - Buffable         - Extended durability / UV resistance         - Resistant to aircraft hydraulic fluids and chemicals         - Compatible with Alumigrip 4450 Clearcoat		
Characteristics Product Information			
Components	Base	Alumigrip 4200	
$\square$ +	Curing Solution	Curing Solution Alumigrip PC-242	
	Activator	Activator A4950 (AC-139)	
	Activator	Activator A4951	
	Activator	Activator A4952	
	Activator	Activator A4953	
	Activator	Activator A4954	
Specifications	Cessna	CMFS037 (G)	
Qualified Product List	Cessna	CSFS084	
	Gulfstream Aerospace	GMS 5008	
	Pilatus	VV0605-28	
	Piper Aircraft Inc	PMS-F1010	
	Product specifications are consta	ntly changing, to ensure the most accurate information regarding	

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**



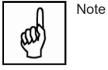
Surface Preparation/ Cleaning

- Surface pretreatment is an essential part of the painting process.
- Alumigrip 4200 is compatible with the most commonly used aerospace primers. However, we advise using the following primers/surfacers: Alumigrip 10P8-11 & Alumigrip 4001.
  - Observe the recoatability times of the relevant primer. Apply Alumigrip 4200 on clean primer. Remove oil, grease and other contamination prior to application.
  - Recondition aged primers or topcoats with grade P320 sanding paper or an aluminum oxide nonwoven abrasive pad to a uniform matt finish.
  - Remove dust with clean tack rags just prior to application of Alumigrip 4200.

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Instruction for Use			
Spray Application		Volume	
	Alumigrip 4200	1 part	
	Curing Solution Alumigrip PC-242	1 part	
	Activator*	0.125 part	
	* Activator options: Activator A4950 (AC-139), A A4954	Activator A4951, Activator A4952, Activator A4953, Activator	
	<ul> <li>Allow products to acclimatize to room temperature before use.</li> <li>Stir or shake Alumigrip 4200 thoroughly until all pigment is uniformly dispersed before adding the curing solution.</li> <li>Add the Alumigrip PC-242 curing solution and add the A4950 (AC- 139), A4951, A4952, A4953, or A4954 and stir the mixture thoroughly.</li> <li>If required, add TR-115 or TR-114 (up to 10% of the base component) for finer atomization and better flow and levelling, and stir the mixture thoroughly.</li> <li>A4950 and A4954 can be blended to further assist in desired leveling and dry time. The 0.125 part overall system mixing ratio must still be achieved regardless of the blend ratio.</li> </ul>		
Induction Time	15 minutes		
Note	Exception: 4200G90006 (black) needs 30-45 minutes induction.		
Initial Spraying Viscosity (25°C/77°F)	35 – 50 seconds ISO Cup #4 15 – 22 seconds Zahn Cup #2 Signature series 16 – 23 seconds Ford Cup #4		
Note	The addition of TR-115, or TR-114 will reduce vi	iscosity for smoother films, better flow and leveling.	
(CD)	Viscosity measurements are provided as guidelines only and are not to be used as quality control parameters. Certified information is provided by certification documentation available on request.		
Pot life (25°C/77°F)	A4950 4 hours A4951 3-4 hours A4952 2-3 hours A4953 1-2 hours A4954 4 hours		
Dry Film Thickness (DFT)	50 – 125 μm 2 – 5 mils		

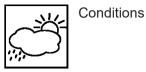




Some colors may require increased film thickness to achieve acceptable hide.

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#### Application Recommendations



Temperatu Relative H		15-35°C / 59-95°F 35 - 75%
Activator G A4950	Standard	Activator (AC139) F / 21°C-27°C, 30-65% RH
A4951		ather Activator °F / 15°- 27°C, 70-80% RH
A4952	Striping A 59°F - 95	Activator °F / 15°- 35°C, 65-95% RH
A4953	Spot Rep	air Activator

59°F - 69°F / 15°C - 27°C, 60-90% RH

A4954 Warm, Humid Activator 80°F - 96°F / 27°C - 36°C, 45-90% RH

Alumigrip 4200 may be applied in conditions outside the limits shown above. Care must be exercised to ensure a satisfactory result. Please contact your local AkzoNobel Aerospace Coatings representative to determine the appropriate application techniques when environmental conditions fall outside of the recommended range.



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Equipment Recommendation

Note

Spray gun type	Product supply	Fluid Pressure	Nozzle orifice	Product flow	Dynamic air pressure at gun- inlet *
Conventional	N/A	N/A	1.2-1.4mm	N/A	3-5 bar / 43-73 psi
HVLP / Next Generation	N/A	N/A	1.2-1.4mm	N/A	2-2.5 bar / 29-36 psi**
Air Atomizing (electrostatic)	N/A	N/A	1.2-1.5mm	240-360 ml/min	4-4.5 bar / 58-65 psi
Pressure Atomizing (electrostatic)	N/A	75-90 bar / 1.0-1.3 kpsi	0.009-0.013 inch / 60°	260-300 ml/min	4-4.5 bar / 58-65 psi

\*Measured with an open trigger

\*\*General advice to meet the HVLP / next-generation spray gun requirements. Please validate with your local authorities.



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Number of Coats

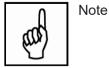
Note

Apply a wet and closed film, followed after 30 minutes of flash-off time by another closed and homogeneous layer. Do not "paint to hide" in the first layer application.



**Cleaning of Equipment** 

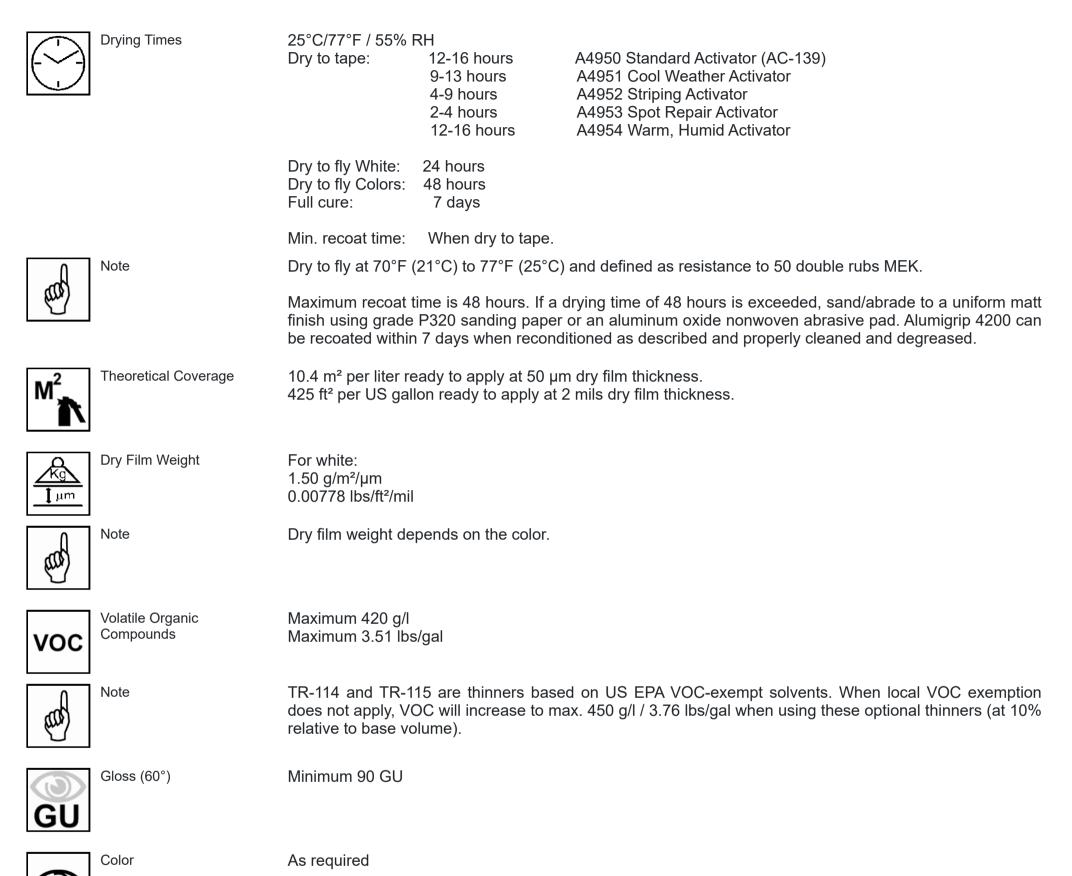
TR-15, Solvent Cleaning C28/15 or Solvent Cleaning 98068 for electrostatic equipment and TR-19, Solvent Cleaning C28/15 or Solvent Cleaning 98068 for conventional spray equipment.



The quality of the application of all coatings will be influenced by the spray equipment chosen and the temperature, humidity, and airflow of the paint application area. When applying the product for the first time, it is recommended that test panels be prepared to identify the best equipment settings to be used in optimizing the performance and appearance of the coating.

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### **Physical Properties**





#### Flash Point

Alumigrip 4200	12ºC / 54ºF
Curing Solution Alumigrip PC-242	35°C / 95°F
Activator A4950 (AC-139)	36°C / 96°F
Activator A4951	36°C / 96°F
Activator A4952	36°C / 96°F
Activator A4953	36°C / 96°F

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	Activator A4954	36°C / 96°F	
Storage	Store the product dry and at a temperature between 5 and 38°C / 41 and 100°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 - 38°C (41 - 100°F)	Alumigrip 4200	24 months	
	Curing Solution Alumigrip PC-242	24 months	
	Activator A4950 (AC-139)	24 months	
	Activator A4951	24 months	
	Activator A4952	24 months	
	Activator A4953	24 months	
	Activator A4954	24 months	
Safety Precautions	Comply with all local safety, disposal and transportation regulations. Check the Material Safety Data Sheet		

on request.

(MSDS) and label of the individual products carefully before using the products. The MSDS's are available

#### Revision date: February 2024 (supersedes June 2023) - FOR PROFESSIONAL USE ONLY

#### **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