



## Product Group

Polyurethane Topcoats

## Characteristics



Product  
Information

Aerodur<sup>®</sup> Finish HF A 133 is a 3-component flexible, semi-gloss polyurethane camouflage finish for interior and exterior use.

- Excellent durability and flexibility
- Impact and erosion resistant
- Resistant to aircraft hydraulic fluids and chemicals

## Components



Hardener Thinner  
or  
Activator

Hardener S 66/22 R

Thinner C 25/90 S (normal conditions, flashpoint <21°C)

Thinner 98064 (warm conditions, flashpoint >21°C)

## Specifications



Qualified Product  
List

German Army

TL 8010-0312

US Air Force

MIL-C-83286

Belgian A.F.

BA-CP-4610

French Air Force

Approval nr. 035141

For most recent up-date or missing specifications please check the qualified product list (QPL) on [www.akzonobel.com/aerospace](http://www.akzonobel.com/aerospace)

## Surface Conditions



Cleaning

- Observe the recoatability limits of the relevant primer.
- Remove oil, grease and other contaminants prior to application of the finish.
- Recondition aged primers or topcoats with e.g. Scotch-Brite<sup>®</sup> type A very fine till a uniform matt surface.
- Remove dust with e.g. tack rags prior to application of the finish.

## Instruction for Use



Mixing Ratio  
(volume)

100 parts      Aerodur<sup>®</sup> Finish HF A 133  
100 parts      Hardener S 66/22 R

Reduce to spraying viscosity with:

Max. 125 parts    Thinner C 25/90S or Thinner 98064

- Allow products to acclimatize to room temperature before use
- Stir or shake Aerodur<sup>®</sup> Finish HF A 133 till all pigment is uniformly dispersed before adding hardener.
- Add Hardener S 66/22 R and stir the catalyzed mixture thoroughly.
- Add thinner and stir again till a homogeneous mixture.



Induction Time

15 – 30 minutes after mixing



Initial Spraying  
Viscosity  
(21°C/70°F)

38 – 43 seconds ISO-Cup 3  
27 – 29 seconds Gardner Signature Zahn-Cup #1.



Note

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  
(21°C/70°F)

6 hours.



Dry Film  
Thickness  
(DFT)

45 – 60 micron (μm)  
1.8 – 2.4 mils

### Application Recommendations



Conditions

Temperature: 15 – 35°C  
59 – 95°F  
Relative Humidity: 35 – 75%



Equipment

Air 1.4 mm nozzle orifice  
HVLP 1.4 mm nozzle orifice  
Air Electrostatic 1.2 mm nozzle orifice  
Airless Electrostatic 6.11 – 6.13, (.011 - .013 inch) angle 60°



Number of Coats

Apply a single coat followed after 20 – 30 minutes solvent flash off time by a full cross coat.



Cleaning of  
Equipment

Solvent Cleaning C 28/15 or Solvent Cleaning 98068



Note

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



## Physical Properties



Drying Times  
(21°C/70°F)

Set to touch	2 hours
Dry hard	4 hours
Dry to tape	6 - 8 hours
Recoat minimum	6 hours for decoration colors
Recoat maximum	72 hours.
	If a drying time of 72 hours is exceeded, condition surface with e.g. Scotch-Brite® type A very fine.



Theoretical Coverage

17 m<sup>2</sup> per liter base material at 45 µm dry film thickness  
682 ft<sup>2</sup> per US gallon base material at 1.8 mils dry film thickness



Gloss (60°)

15 – 45 GU



Color

Fed. Stan. 595.



Flash-point

Aerodur® Finish HF A 133	<21°C / 70°F
Hardener S 66/22 R	>21°C / 70°F
Thinner C 25/90 S	<21°C / 70°F
Thinner 98064	>21°C / 70°F



Storage

Store the product dry and at a temperature between 5 and 25°C / 41 and 77°F. Stored in the original unopened containers.

Aerodur® Finish HF A 133	24 months
Hardener S 66/22 R	24 months
Thinner C 25/90 S	36 months
Thinner 98064	36 months

## Safety Precautions

Comply with all local safety, disposal and transportation regulations. Check the Material Safety Data Sheet (MSDS) and label of the individual products carefully before using the products. The MSDS's are available on request.

**Issue date: August 2009 (supersedes July 2007) - 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.  
Scotch-Brite® is a trademark of 3M.