

Daylight Reflecting System

Technical Data Sheet

Product Group

Fluid resistant finishes

Characteristics



Product
Information

Daylight Reflecting System is a base-coat/clear-coat system for exterior use.

- High daylight reflection
- Resistant to aircraft fluids and chemicals.

Components



Curing Solution
Thinner /
Activator

Base material

Autocryl® Reflex

Curing Solution

Hardener S 66/22 R

Thinner

Thinner C 25/90 S

Specifications



Qualified
Product List

Airbus

AIMS 04-04-056

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



Cleaning

- Autocryl® Reflex must be applied on top of a white polyurethane topcoat e.g. Eclipse, Aerobase, Aviox or Aerodur Finish C 21/100 UVR white, after a drying time of 16 – 72 hours.
- Remove oil, grease and other contaminations prior to application of Autocryl® Reflex.
- Remove dust with e.g. tack rags prior to application of Autocryl® Reflex.

Instruction for Use



Mixing Ratio
(volume)

Autocryl® Reflex 100 parts

Hardener S 66/22 R 50 parts

Thinner C 25/90

Reduce to spraying viscosity with:

Thinner C 25/90

10 – 25 parts

Daylight Reflecting System

Fluid Resistant Finish

- Allow products to acclimatize to room temperature before use.
- Stir or hake Autocryl® Reflex 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
Stir mixture thoroughly before application.



Initial Spraying
Viscosity
(23°C/73°F)

20 – 35 seconds ISO Cup #4
11 – 18 seconds Gardner Signature Zahn Cup #2



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
(23°C/73°F)

4 hours



Dry Film
Thickness
(DFT)

75 – 100 µm
3.0 – 3.9 mils

Application Recommendations



Conditions

Temperature: 15 – 35°C
59 – 95°F
Relative Humidity: 25 – 80%



Note

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



Equipment

Air 1.4 – 1.8 mm nozzle orifice
HVLP 1.4 – 1.8 mm nozzle orifice

Daylight Reflecting System Fluid Resistant Finish



Application
Scheme

- One single coat. After 10 – 15 minutes flash-off apply a cross-coat followed after another 10 -15 minutes flash-off by a second cross-coat
- Apply Aerodur® Clearcoat UVR after a drying time of 4 hours. For application recommendations see data-sheet code 30-03.



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



Set to touch	0.5 – 1 hour
Dust free	3 hours
Recoat min.	4 hours
Recoat max.	72 hours



Theoretical
Coverage

9 m² per liter base material at 75 µm dry film thickness.
361 ft² per US gallon base material at 3.0 mils dry film thickness.



Dry Film Weight

1.2 g/m²/µm
0.0062 lbs/ft²/mil



Gloss (60°)

Over-coated with Aerodur® Clearcoat UVR > 90 GU.



Color

Red RAL 3024

Daylight Reflecting System

Fluid Resistant Finish



Flash-point

Autocryl® Reflex.
Hardener S 66/22 R
Thinner C 25/90 S

>21°C / 70°F
>21°C / 70°F
<21°C / 70°F



Storage

Store the product dry and at a temperature between 5 - 35°C / 41 - 95°F. Stored in the original unopened containers.

Shelf life
(5-35°C / 41-
95°F)

Autocryl® Reflex.
Hardener S 66/22 R
Thinner C 25/90 S

48 months
24 months
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.

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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.

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