

Dynacoat Clear Matt is a matt clearcoat that can be used either on its own or mixed with one of the Dynacoat Clearcoats mentioned below to obtain the required gloss level. Clear Matt is a very easy to apply matt clearcoat. Various Dynacoat Hardeners and thinners/activators are available to adjust the clear to different application conditions and the regional VOC legislation.

**MIXING RATIO CLEAR MATT**

2 Dynacoat Clear Matt
1 Dynacoat Flexi Hardener Medium / Slow
10% Dynacoat Thinner Fast / Medium / Slow

**MIXING STICK**

Use Dynacoat mixing stick D1

**EQUIPMENT**

Spray gun set-up: 1.2-1.4mm
Application pressure: 1.7-2.2 bar at the air inlet*

*See user manual spray gun

**APPLICATION**

2 x 1 coat
First apply a flowing closed layer, followed by a full flowing layer

**FLASH-OFF**

5-10 minutes between coats
10-15 minutes before curing

**DRYING**

	20°C	60°C
Dynacoat Flexi Hardener	6-7 hours	20-25 minutes

**PROTECTION**

Use suitable respiratory protection. AkzoNobel Vehicle Refinishes recommends the use of a fresh air supply respirator.

Read complete technical data sheet for detailed product information

**MIXING RATIO CLEAR 8000**

- 2 Dynacoat Clear Matt mixed with Clear 8000
- 1 Dynacoat Hardener Clear 8000
- 10% Dynacoat Clear 8000 Thinner / 8000 Thinner Slow / Thinner Clear Slow

**MIXING RATIO CLEAR 9000**

- 2 Dynacoat Clear Matt mixed with Clear 9000
- 1 Dynacoat Hardener 420
- 10% Dynacoat Thinner 420 / Thinner 420 Slow / Thinner Clear Slow

**MIXING RATIO CLEAR 3000 AS / 6000 HS AS**

- 2 Dynacoat Clear Matt mixed with Clear 3000 HS / 6000HS AS
- 1 Dynacoat Flexi Hardener Medium / Slow
- 10% Dynacoat Thinner Fast / Medium / Slow

**MIXING RATIO CLEAR UHS Speed / UHS Air**

- 2 Dynacoat Clear Matt mixed with Clear UHS Speed / UHS Air
- 1 Dynacoat Hardener UHS
- 10% Dynacoat Thinner UHS Fast / Standard

**MIXING STICK**

Use Dynacoat mixing stick D1

**EQUIPMENT**

Spray gun set-up: 1.2-1.4mm
Application pressure: 1.7-2.2 bar at the air inlet*

*See user manual spray gun

**APPLICATION**

2 x 1 coat
First apply a flowing closed layer, followed by a full flowing layer

**FLASH-OFF**

5-10 minutes between coats
10-15 minutes before curing

**DRYING**

Clear 3000 Fast AS
 Clear 6000 HS AS
 Clear 8000
 Clear 9000
 Clear UHS Speed
 Clear UHS Air

20°C

3 hours
 4 hours
 8 hours
 3 hours
 3 hours
 4 hours

60°C

15-18 minutes
 20-30 minutes
 30-45 minutes
 30-45 minutes
 10-15 minutes
 20 minutes

**PROTECTION**

Use suitable respiratory protection. AkzoNobel Vehicle Refinishes recommends the use of a fresh air supply respirator.

**PRODUCT AND
ADDITIVES**

Dynacoat Clear Matt
 Dynacoat Flexi Hardener Medium / Slow
 Dynacoat Hardener Clear 8000
 Dynacoat Hardener 420
 Dynacoat Hardener UHS
 Dynacoat Thinner Fast / Medium / Slow
 Dynacoat Thinners Clear
 Dynacoat Thinners 420
 Dynacoat Thinner UHS Fast / Standard

**BASIC RAW
MATERIALS**

Dynacoat Clear Matt: polyol resins
 Dynacoat Hardeners: poly-isocyanate resins

**SUITABLE
SUBSTRATES**

Waterborne and solventborne basecoats
 Existing finishes

MIXING

The following gloss levels can be achieved by mixing Dynacoat Clear Matt with Dynacoat Clear 3000AS or Clear 6000 HS AS.
 This table is a guideline for the different gloss levels.
 It is advised to spray a test panel to check the gloss level, as the result may be influenced by:
 a) the layer thickness applied
 b) the drying conditions

		Gloss Units
Matt finish		
100% Dynacoat Clear Matt		± 10 - 20
Eggshell finish (v/v)		
4	Dynacoat Clear Matt	± 30 - 40
1	Dynacoat Clear 3000 Fast AS / 6000 HS AS	
Semi-gloss finish (v/v)		
3	Dynacoat Clear Matt	± 50 - 70
2	Dynacoat Clear 3000 Fast AS / 6000 HS AS	
1	Dynacoat Clear Matt	± 70 - 80
1	Dynacoat Clear 3000 Fast AS / 6000 HS AS	

2 Dynacoat Clear Matt 100% or mixed with Clear 3000AS / 6000HS AS
 1 Dynacoat Flexi Hardener Medium / Slow
 10% Dynacoat Thinner Fast / Medium / Slow

Use Mixing stick D1

MIXING

<p>The following gloss levels can be achieved by mixing Dynacoat Clear Matt with Dynacoat Clear 8000 / Clear 9000. This table is a guideline for the different gloss levels. It is advised to spray a test panel to check the gloss level, as the result may be influenced by: a) the layer thickness applied b) the drying conditions</p>	
Matt finish	Gloss Units
100% Dynacoat Clear Matt	± 10 – 20
Eggshell finish (v/v)	
4 Dynacoat Clear Matt 1 Dynacoat Clear 8000 / 9000 / UHS Speed / UHS Air	± 35 - 45
Semi-gloss finish (v/v)	
3 Dynacoat Clear Matt 2 Dynacoat Clear 8000 / 9000 / UHS Speed / UHS Air	± 60 – 75

- 2 Dynacoat Clear Matt mixed with Clear 8000*
1 Hardener Clear 8000
10% Thinner Clear 8000/ Clear 8000 Thinner Slow / Thinner Clear Slow
*** 3:1:1 if only Dynacoat Clear Matt is used with Hardener Clear 8000**

Use Mixing stick D1

- 2 Dynacoat Clear Matt mixed with Clear 9000*
1 Hardener 420
10% Dynacoat Thinner 420 / Thinner 420 Slow / Thinner Clear Slow
*** 3:1:1 if only Dynacoat Clear Matt is used with Hardener 420**

Use Mixing stick D1

- 2 Dynacoat Clear Matt mixed with Clear UHS Speed*
1 Hardener UHS
10% Thinner UHS Fast / Thinner UHS Standard
*** 3:1:1 if only Dynacoat Clear Matt is used with Hardener UHS**

Use Mixing stick D1

- 2 Dynacoat Clear Matt mixed with Clear UHS Air*
1 Hardener UHS
10% Thinner UHS Fast / Thinner UHS Standard
*** 3:1:1 if only Dynacoat Clear Matt is used with Hardener UHS**

Use Mixing stick D1

VISCOSITY

13-18 seconds DIN Cup 4 at 20°C

POTLIFE**A component / mixture Clear/Hardener used**

Dynacoat Flexi Hardeners	2-3 hours at 20°C
Hardener Clear 8000 / Hardener 420	30-45 minutes at 20°C
Hardener UHS	45 min – 3 hrs at 20°C

SPRAY GUN FLUID TIP AND WORKING PRESSURE

Spray gun:	Fluid tip:	Pressure:
Gravity feed:	1.2 - 1.4 mm	1.7 – 2.2 bar (see user manual spray gun) HVLP max 0.7 at air cap

APPLICATION

Apply a flowing closed layer, allowing for a 5-10 minutes flash-off time at 20°C. (flash off time depends on hardener / thinner combination used)
Next, apply a full flowing layer allowing for a 10-15 minutes flash-off time at 20°C before bake.

**This time can be greatly influenced by the conditions at the time of application*

CLEANING OF EQUIPMENT

Use solvent based Guncleaner, or nitrocellulose thinner

FILM THICKNESS

Per coat:	25-30 µm
Recommended application (2 layer):	45-60 µm

DRYING

	Dry to handle	
	20°C	60°C
Flexi Hardener Medium	6 hrs	20 min
Flexi Hardener Slow	7 hrs	30 min

IR DRYING

Dry to handle after 4 minutes low power 8 minutes high power

THEORETICAL COVERAGE

Ready for use mixture at 1 µm layer thickness: ± 367 m²/liter
The practical coverage depends on many factors i.e. shape of the object, roughness of the surface, application method and application circumstances.

PRODUCT STORAGE

Product shelf-life is determined when products are stored unopened at 20°C.
Avoid extreme temperature fluctuation.

SHELF LIFE 4 years at 20°C.

VOC **2004/42/IIb(e)(840)600**
The EU limit value for this product (product category: IIB.e) in ready to use form is max. 840 g/liter of VOC.
The VOC content of this product (100% Dynacoat Clear Matt) in ready to use form is max. 600 g/liter RTS mixture

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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 fulfil 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 advices given are 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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