

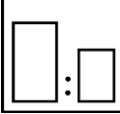


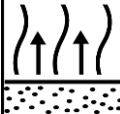




## Technical Data Sheet

**UHS Clear Coat 93 2:1 ZG/M**  
 Art.nbr.: 9310 ZG / 9310 M

Clear Coats  
 Version: **EN-TDS-9310.ZM-7**  
 Revision: April 2015  
 Page: 1 of 5

**FOR PROFESSIONAL USE ONLY**

### APPLICATION SHEET

	<p>2 UHS Clear Coat 93          1 HS Hardener 83 Fast          Add, if necessary, 0-10% 2K PU ULTRA Thinner</p>
	<p>Spray nozzle: 1.2 - 1.3 mm                      Pressure: 2.0 - 2.2 bar at the air inlet</p>
	<p>Spray nozzle HVLP 1.2 mm                      Spray nozzle HVLP 1.3 mm          Mist spray + 1 full coat                      Open mist spray + 1 full coat</p>
	<p>Between spray coats                      After the last spray coat          5 - 10 minutes                      5 - 10 minutes</p>
	<p>Application viscosity                      Application- and object temperature          17 - 19 seconds (DIN CUP 4 mm / 20°C)                      18°C - 30°C</p>
	<p>Potlife          4 hours at 20°C</p>
	<p>Use suitable respiratory protection</p>
	<p>For full technical information, please read the complete Technical Data Sheet</p>

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## FULL TECHNICAL INFORMATION



- 1 layer clear coat
- ULTRA High Solid product
- VOC Compliant
- Easy to use
- Ready to use SEMI-GLOSS and MATT version

### FIELD OF APPLICATION

For application as a clear coat over KRISTAL AquaGreen WB and other Metallic Basecoat Series.  
Suitable for passenger cars.

KRISTAL UHS Clear Coat 93 2:1, is a non-yellowing high-gloss finishing finish. Easy to use and time saving because only 1¼ spray coats are needed to achieve 50-70 µm coat thickness. Air-drying and force-drying.

### PRODUCT AND AUXILIARY PRODUCTS

	<b>UHS Clear Coat 93 2:1</b>	
	<b>SEMI GLOSS</b>	
	<b>MATT</b>	
<b>Hardener</b>	HS Hardener 83 Fast	Drying time 15-25 minutes at 60°C (object temp.)
<b>Product to add</b>	2K PU ULTRA Thinners 2K Drying Booster	A thinner with which the right viscosity can be achieved Drying accelerator for Clear Coats and Surfacer
<b>Article numbers</b>	UHS Clear Coat 93 2:1	
	<b>SEMI GLOSS</b>	9310 ZG
	<b>MATT</b>	9310 M
	HS Hardener 83 Fast	8311
	2K PU ULTRA Thinner STD	3130
	2K PU ULTRA Thinner Fast	3131
	2K PU ULTRA Thinner Slow	3132
	2K Drying Booster	3121

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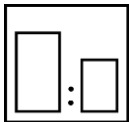
#### CHEMICAL BASIS

KRISTAL UHS Clear Coat 93 2:1 ZG/M      Hydroxy-acrylic resins  
 KRISTAL HS Hardener 83 Fast              Isocyanate resin

#### SUBSTRATES

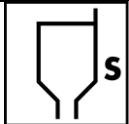
KRISTAL AquaGreen WB  
 Metallic basecoat / waterbase basecoat  
 Sanded and degreased old layers

#### MIXING



- 2 KRISTAL UHS Clear Coat 93 2:1 SEMI-GLOSS / MATT
  - 1 KRISTAL HS Hardener 83 Fast
- Add, if necessary, 0 - 10% KRISTAL 2K PU ULTRA Thinner

#### APPLICATION VISCOSITY

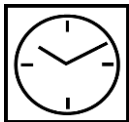


Application viscosity  
 17 - 19 seconds (DIN CUP 4 mm / 20°C)

Application- and object temperature  
 18°C - 30°C

#### DRYING

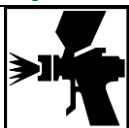
All drying times relate to standard application and **object temperature**.



<b>UHS Clear Coat 93 ZG/M</b>
<b>HS Hardener 83 Fast</b>

20°C	<b>Dust dry</b>	1 hour
	<b>Fully cured</b>	7 hours

#### EQUIPMENT SET-UP



Spray nozzle:  
 1.2 - 1.3 mm

Pressure:  
 2.0 - 2.2 bar at the air inlet

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#### SPRAY COATS / LAYER THICKNESS

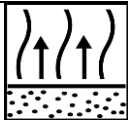


Spray nozzle HVLP 1.2 mm  
Mist spray + 1 full coat

Spray nozzle HVLP 1.3 mm  
Open mist spray + 1 full coat

Coat thickness 50 – 70 µm

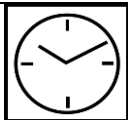
#### FLASH-OFF



Maintain a flash-off of 5 – 10 minutes between the layers

Maintain a flash-off of 5 – 10 minutes after the last spray coat

#### POTLIFE



4 hours at 20 °C

#### ECONOMY

12-14 m<sup>2</sup> per liter ready to spray clear coat (60 µm)

#### CLEANING THE EQUIPMENT

KRISTAL NC Thinner 3120

#### PHYSICAL PROPERTIES

##### FOR SEMI-GLOSS

Density : 1,03 kg/l  
Flashpoint : 23 °C  
Vol.% solids : 53,1%

##### FOR MATT

Density : 1,04 kg/l  
Flashpoint : 23 °C  
Vol.% solids : 52,8%

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#### VOLATILE ORGANIC COMPOUND

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VOC CODE: **2004/42/IIB(d)(420)(418)**

**Product Subcategory (according directive 2004/42/EG) and max. VOC content of the ready to use product IIB(d). Topcoat – All types. EU limit values: 420 g/l. (2007)**  
This product contains a maximum of 418 g/l. VOC

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#### STORAGE LIFE

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Under normal storage conditions for up to two years in unopened tins.

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#### TRANSPORT- AND STORAGE CONDITIONS

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Do not store or transport this product at a temperature lower than 8°C or higher than 30°C.

<p><b>KRISTAL COATINGS B.V.</b> P.O. Box 72 6640 AB BEUNINGEN GLD. The NETHERLANDS  Tel.: +31 24 675 2636 Fax: +31 24 675 3360  E-mail: <a href="mailto:info@kristalcoatings.nl">info@kristalcoatings.nl</a> Internet: <a href="http://www.kristalcoatings.com">www.kristalcoatings.com</a></p>	<p><b>Important notice</b> Our products are suitable for professional use only. Registered processing times are valid under conditioned application circumstances only. In view of the many factors that may affect processing and application of our products, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, not the suitability of the products for a specific purpose. Any date, weight, proportions, etc. given herein are for general information purpose only; they may change without prior information and do not constitute the quality of the products (product specification). For technical support and advice with concern to choices of coatings systems and methods of application, our technical staff will be at your service at all times.</p>
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