

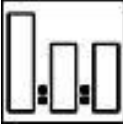


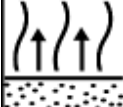





Technical Data Sheet

KRISTAL Universal TimeClear 3.0
Art.nbr.: 9455-3

Clear Coats
Version: **EN-TDS-9455_3-5**
Revision: March 2018
Page: 1 of 6

FOR PROFESSIONAL USE ONLY

APPLICATION SHEET

	<p>4 Universal TimeClear 3.0 1 Universal TimeHardener 3.0 1 Universal TimeAdd 3.0 <i>Maintain the following on your mixing cup: 4:1 + 20%</i></p>
	<p>Spray nozzle: 1.2 – 1.3 mm Pressure: 2.0 bar at the air inlet Recommendation: DeVILBISS TE20 1.3 SATAjet 5000 B RP 1.2</p>
	<p>2 spray coats Layer thickness 50-60 µm</p>
	<p>3 – 5 minutes between the layers</p>
	<p>See overview on page 4</p>
	<p>Application viscosity 15 – 16 seconds (DIN CUP 4 mm / 20°C) Application- and object temperature 18°C – 25°C</p>
	<p>Potlife 80 minutes at 20°C</p>
	<p>Use suitable respiratory protection</p>
	<p>For full technical information, please read the complete Technical Data Sheet</p>

Technical Data Sheet

KRISTAL Universal TimeClear 3.0
Art.nbr.: 9455-3

Clear Coats
Version: **EN-TDS-9455_3-5**
Revision: March 2018
Page: 2 of 6

FOR PROFESSIONAL USE ONLY

FULL TECHNICAL INFORMATION



- Fully cures with only 20°C
- Dust-dry after 10 – 15 minutes
- No heating of the spray booth
- Applicable for 1 panel up to a whole car overspray
- Excellent clearness
- Dry to assemble after 2,5 hours at 20°C
- Based on Automechanika Innovation Award winning technology

FIELD OF APPLICATION

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

KRISTAL Universal TimeClear 3.0, is an easy-to-use chemical resistant, non-yellowing, finishing clear finish.
Air-drying and force-drying.

PRODUCT AND AUXILIARY PRODUCTS

	KRISTAL Universal TimeClear 3.0	
Hardener	KRISTAL Universal TimeHardener 3.0	
Product to add	KRISTAL Universal TimeAdd 3.0	
Article numbers	KRISTAL Universal TimeClear 3.0	9455-3
	KRISTAL Universal TimeHardener 3.0	8455-3
	KRISTAL Universal TimeAdd STD 3.0	3455-3

Technical Data Sheet

KRISTAL Universal TimeClear 3.0

Art.nbr.: 9455-3

Clear Coats

Version: **EN-TDS-9455_3-5**

Revision: March 2018

Page: 3 of 6

FOR PROFESSIONAL USE ONLY

CHEMICAL BASIS

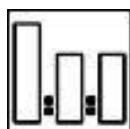
KRISTAL Universal TimeClear 3.0
KRISTAL Universal TimeHardener 3.0

Hydroxy-acrylic resins
Isocyanate resin

SUBSTRATES

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

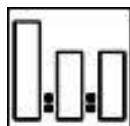
MIXING



- 4 Universal TimeClear 3.0
- 1 Universal TimeHardener 3.0
- 1 Universal TimeAdd 3.0

Maintain the following on your mixing cup: 4:1 + 20%

MIXING



- 4 Universal TimeClear 3.0 (A)
- 1 Universal TimeHardener 3.0 (B)
- 1 Universal TimeAdd 3.0 (C)

100 ML	
A	64,5 gr
B	17,3 gr
C	14,6 gr

200 ML	
A	128,9 gr
B	34,5 gr
C	29,2 gr

300 ML	
A	193,4 gr
B	51,8 gr
C	43,8 gr

400 ML	
A	257,9 gr
B	69,1 gr
C	58,3 gr

500 ML	
A	322,3 gr
B	86,3 gr
C	72,9 gr

600 ML	
A	386,8 gr
B	103,6 gr
C	87,5 gr

700 ML	
A	451,3 gr
B	120,9 gr
C	102,1 gr

800 ML	
A	515,7 gr
B	138,1 gr
C	116,7 gr

Technical Data Sheet

KRISTAL Universal TimeClear 3.0

Art.nbr.: 9455-3

Clear Coats

Version: **EN-TDS-9455_3-5**

Revision: March 2018

Page: 4 of 6

FOR PROFESSIONAL USE ONLY

DRYING

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



Universal TimeClear 3.0
Universal TimeHardener 3.0
Universal TimeAdd STD 3.0

20°C	Dust dry	13 – 15 minutes
	Dry to polish / Dry to assemble	140 – 160 minutes
	Fully cured	Approx. 16 hours

40°C	Dust dry	---
	Handable	140 – 160 minutes

All curing times are subject to and can differ due to: layer thickness, humidity and air velocity.

INFRARED DRYING



D The curing times as listed are based on short wave (6 kilowatt).

IMPORTANT! The object temperature during infrared curing may not exceed 100°C.

PRODUCT	U (min)	A (cm)	L (min)	H (min)
KRISTAL Universal TimeClear 3.0	5-8	50-70	4	8

U = Flash-off time

L = Number of minutes half power

A = Distance infrared unit to object

H = Number of minutes full power

APPLICATION VISCOSITY



Application viscosity

15 – 16 seconds (DIN CUP 4 mm / 20°C)

Application- and object temperature

18°C – 25°C

Technical Data Sheet

KRISTAL Universal TimeClear 3.0

Art.nbr.: 9455-3

Clear Coats

Version: **EN-TDS-9455_3-5**

Revision: March 2018

Page: 5 of 6

FOR PROFESSIONAL USE ONLY

EQUIPMENT SET-UP



Spray nozzle:
1.2 – 1.3 mm

Pressure:
2.0 bar at the air inlet

Recommandation:

DeVILBISS TE20 1.3
SATAjet 5000 B RP 1.2

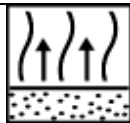
SPRAY COATS / LAYER THICKNESS



2 full spray coats

Layer thickness 50-60 µm

FLASH-OFF



Maintain a flash-off of 3 – 5 minutes between the layers

POTLIFE



80 minutes at 20 °C

ECONOMY

10 m² per liter ready to spray clear coat

CLEANING THE EQUIPMENT

KRISTAL NC Thinner 3120

PHYSICAL PROPERTIES

Density : 0,97 kg/l
Flashpoint : 18 °C
Vol.% solids : 50,7%

Technical Data Sheet

KRISTAL Universal TimeClear 3.0
Art.nbr.: 9455-3

Clear Coats
Version: **EN-TDS-9455_3-5**
Revision: March 2018
Page: 6 of 6

FOR PROFESSIONAL USE ONLY

VOLATILE ORGANIC COMPOUND

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

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 420 g/l. VOC

STORAGE LIFE

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

TRANSPORT- AND STORAGE CONDITIONS

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

KRISTAL COATINGS B.V.

P.O. Box 72
6640 AB BEUNINGEN GLD.
The NETHERLANDS

Tel.: +31 24 675 2636
Fax: +31 24 675 3360

E-mail: info@kristalcoatings.nl
Internet: www.kristalcoatings.com

Important notice

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.