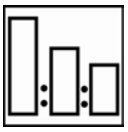
Autoclear® LV Superior

FOR PROFESSIONAL USE ONLY

Description

Two-pack VOC compliant clearcoat concept, consisting of three clearcoats, one dedicated hardener and three reducers, designed for optimum application properties. This concept covers all sizes of repairs at optimum quality levels under all application conditions. The clearcoat technology will ensure a very robust and reliable product performance combined with high gloss level on Autowave.



100 Autoclear LV Superior Clearcoats
60 Autoclear LV Superior Hardener
20 Autoclear LV Superior Reducers

Use Sikkens measuring stick
No. 31 Blue

Spray gun set-up:
1.2-1.4 mm

Application pressure:
28-30 psi (1.7-2.2 bar) at the air inlet
HVLP max 8-10 psi (0.6-0.7 bar) at the air cap

2 x 1 coat
First apply a medium closed coat, next apply a full coat after indicated flash off time

Between coats
3-5 minutes at 70°F (20°C)
Reducer selection according temperature

Before curing
3-5 minutes at 70°F (20°C)
Flash-off time depending on oven type

Clearcoat selection	70°F (20°C)	140°F (60°C)
Autoclear LV Superior Fast	6 hours	15 minutes
Autoclear LV Superior Medium	7 hours	25 minutes
Autoclear LV Superior Slow	8 hours	35 minutes

Use suitable respiratory protection
Akzo Nobel Car Refinishes recommends the use of a fresh air supply respirator.

Read complete TDS for detailed product information

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Product and additives

Autoclear LV Superior Fast: 15 minutes drying time at 140°F (60°C)
Autoclear LV Superior Medium: 25 minutes drying time at 140°F (60°C)
Autoclear LV Superior Slow: 35 minutes drying time at 140°F (60°C)

Hardener Autoclear LV Superior Hardener; a general purpose hardener for all repair sizes.

Reducers Autoclear LV Superior Reducer Fast; spot and panel repairs below 70°F (20ºC)
Autoclear LV Superior Reducer Medium; spot and panel repairs at 70°F-95°F (20°C-35°C)
Autoclear LV Superior Reducer Slow; larger areas and overall refinishing at 75°F-110°F (25°C-45°C)

Accelerator Autoclear LV Superior Accelerator; for spot and panel repair application at temperatures **below 90°F (30°C).**

Additives Autoclear Mat; a matt clearcoat finish to create different clearcoat gloss levels (TDS 5.5.1)

No plasticiser (Elast-O-Actif) required for application on plastic car parts.

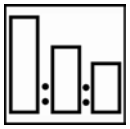
Basic raw materials

Autoclear LV Superior; Polyol resins
Autoclear LV Superior Hardener; Poly-isocyanate resins

Suitable substrates

Autowave; after a minimum flash off time of 15 minutes at 75°F (25°C)

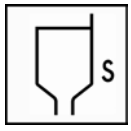
Mixing



100	Autoclear LV Superior(s)	**100**	Autoclear LV Superior Fast/Medium
60	Autoclear LV Superior Hardener	**60**	Autoclear LV Superior Hardener
20	Autoclear LV Superior Reducer(s)	**20**	Autoclear LV Superior Accelerator

Use measuring stick No. 31 Blue.

Viscosity



15-17 seconds – DIN Cup 4 at 70°F (20°C).

Spray gun set-up / application pressure

Spray gun	Fluid tip – set-up	Application pressure
Gravity feed	1.2-1.4 mm	28-30 psi (1.7-2.2 bar) at the spray gun air inlet HVLP max 8-10 psi (0.6-0.7 bar) at the air cap

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Application process & blending

Apply a medium closed coat, allowing for a 3-5 minutes flash-off time at 70°F (20°C).
Next, apply a full coat, allowing for a 3-5 minutes flash-off time at 70°F (20°C) before baking.

- Flash-off between coats; in case of application to larger areas, flash off between coats is minimal.
- Recoatable with itself after full drying cycle, sanding becomes necessary after 24 hours
- For blending (spot repair and panel blends), see TDS S8.01.01.
- *When sanding and heavy polishing is required, a third coat may be applied after the stated flash-off times at 70°F (20°C).*

Pot-life

Autoclear LV Superior Fast	30 minutes	at 70°F (20°C)
Autoclear LV Superior Fast + Autoclear LV Superior Accelerator	30 minutes	at 70°F (20°C)
Autoclear LV Superior Medium	1 hour	at 70°F (20°C)
Autoclear LV Superior Medium + Autoclear LV Superior Accelerator	1 hour	at 70°F (20°C)
Autoclear LV Superior Slow	1½ hour	at 70°F (20°C)

Drying times

Allow for a minimum of 5 minutes flash off time at 70°F (20°C) before moving the car into a pre-heated drying oven (booth) at 140°F (60°C). All drying times relate to standard application and object temperature. *Consider the time required for the spraybooth to reach an acceptable air temperature to enable the heat transfer of 140°F (60°C) to the object.*

		LV Superior Fast LV Superior Accelerator	LV Superior Medium LV Superior Accelerator	LV Superior Fast	LV Superior Medium	LV Superior Slow
70°F (20°C)	**Dust dry**	50 minutes	50 minutes	1 hour	1 ½ hours	2 ½ hours
	Dry to handle*	3 hours	3 hours	6 hours	7 hours	8 hours
122°F (50°C)	**Dust dry**	7 minutes	10 minutes	10 minutes	20 minutes	25 minutes
	Dry to handle*	20 minutes	25 minutes	30 minutes	50 minutes	60 minutes
140°F (60°C)	**Dust dry**	4 minutes	6 minutes	7 minutes	10 minutes	20 minutes
	Dry to handle*	12 minutes	15 minutes	15 minutes	25 minutes	35 minutes

***Dry to handle**
Following the drying cycle at 140°F (60°C) object temperature, allow the Autoclear LV Superior to cool down fully to ambient temperature.

Dry to handle after approximately 10 minutes.
Allow 5 minutes flash off prior to infra red curing
The panel must not reach a temperature above 212°F (100°C) while curing.
For additional infra red drying information; see TDS S9.01.01

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Polishability

Dust and minor imperfections can be polished out after the stated air-dry times have been reached, or after a full bake at 140°F (60°C) object temperature, followed by a cool down of the object to ambient temperature. Carefully sand out dust particles and restore the surface according polishing recommendations. *Ready to polish approximately 1 hour after cool down to ambient temperature.*

Film thickness

	mils	µm
By using the recommended application (2 coats)	1.7-2.4	45-60

Theoretical Coverage

Ready for use mixture at 1 µm layer thickness	± 5496 sq.ft/liter	± 510 m²/liter

Cleaning of equipment

Sikkens Solvents or solvent borne guncleaners

VOC

The EU limit value for this product (product category: IIB.d) in ready to use form is max. 420 g/liter VOC.
The VOC content of this product in ready to use form is max. 413 g/liter.

Product storage

Product shelf-life is determined when products are stored unopened at 70°C (20°C).
Avoid extreme temperature fluctuation.

- *Product shelf life data see TDS S9.01.02*

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