

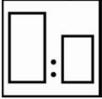
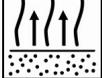
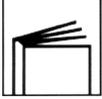
Universal EcoClear LV™

Programmed System Technique (PST)
Clearcoat
03/30/2017

DESCRIPTION

Lesonal Universal EcoClear LV is a two-component VOC compliant clearcoat, designed for use over Lesonal Basecoat WB or SB. Lesonal Universal EcoClear LV has built in flex package and covers all sizes of repairs, under all application conditions, combined with high gloss levels of Basecoat WB.

NOTE: Lesonal EZ Matte is not approved for use with this clearcoat

Safety Considerations	Use suitable personal protection AkzoNobel recommends the use of fresh air supply respirator Refer to the product Safety Data Sheet (SDS) for more complete safety information.	
		
Mixing 	Mixing 2 Universal EcoClear LV (Fast or Slow) 1 Universal EcoClear LV Hardener	
STICK #4		
Equipment	HVLP or Compliant Spray-Gun Set-Up:	Application Air Pressure:
	HVLP Gravity 1.3-1.4 mm High Transfer Gravity 1.3-1.4 mm	HVLP – 10 psi at the air cap maximum. Consult spray gun manufacturer specifications
Application	2 coats	
		
Flash-off	Flash Between Coats at 70°F (21°C)	Flash Before Force Drying at 70°F (21°C)
	5-10 minutes	0-10 minutes
Drying	Air Drying at 70°F (21°C)	Dry to Handle
	Dust Free 25 min Universal EcoClear LV Fast 1 hour Universal EcoClear LV Slow	2.5 hours Universal EcoClear LV Fast 4 hours Universal EcoClear LV Slow <i>Dependent on film weight.</i>
Drying	Force Drying at 140°F (60°C)	Infrared
	Dry to Handle 15 min Universal EcoClear LV Fast 30 min Universal EcoClear LV Slow	Not recommended
Recoatable With	<ul style="list-style-type: none"> Universal EcoClear LV Clear 	
		

Universal EcoClear LV™

Technical Data Sheet
Clearcoat
03/30/2017
Page 2 of 6

DESCRIPTION

Lesonal Universal EcoClear LV is a two-component VOC compliant clearcoat, designed for use over Lesonal Basecoat WB or SB. Lesonal Universal EcoClear LV has built in flex package and covers all sizes of repairs, under all application conditions, combined with high gloss levels of Basecoat WB.

NOTE: Lesonal EZ Matte is not approved for use with this clearcoat

PRODUCT AND ADDITIVES

Product	Universal EcoClear LV Fast	Item #537896
	Universal EcoClear LV Slow	Item #537895
Hardeners	Universal EcoClear LV Hardener – General purpose hardener for all repair sizes.	Item #553387
Additives	LV250 Accelerator	Item #389353
	Lesonal Blending Solvent LV	Item #398298

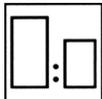
METHOD OF USE

- Suitable substrates**
- Lesonal WB or Lesonal SB after a flash off time of 15 minutes at 77°F (25°C)
 - Existing finishes that have been thoroughly sanded and degreased in the case of spot repairs and blending.

Basic Raw Materials

- Universal EcoClear LV Fast: polyol resins
- Universal EcoClear LV Slow: polyol resins
- Universal EcoClear LV Hardener: polyisocyanate resins
- Additives: Refer to the individual TDS for information.

Mixing - General



#4 Stick

Standard Ratio:

2 parts by volume of Universal EcoClear LV Fast or Slow to accommodate spraying conditions
1 part by volume of Universal EcoClear LV Hardener

Accelerated Ratio:

2 parts by volume of Universal EcoClear LV Fast or Slow to accommodate spraying conditions
1 part by volume of Universal EcoClear LV Hardener
0.5 ounce LV250 Accelerator to RTS QT.

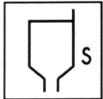
Mixing – Flexible Parts

Flex additive is not needed with this product when applied over plastic substrates.

Universal EcoClear LV™

Technical Data Sheet
Clearcoat
03/30/2017
Page 3 of 6

Viscosity **12-15 seconds** Measured with a DIN #4 viscosity cup at 70°F (21°C).
When Mixed



DIN #4

Pot-Life When Mixed	Product Mix	70°F (21°C)
	Universal EcoClear LV Fast	60 min
	Universal EcoClear LV Fast Accelerated	40 min
	Universal EcoClear LV Slow	80 min
	Universal EcoClear LV Slow Accelerated	60 min
	Universal EcoClear LV Fast / Slow 50/50 Blend	70 min
	Universal EcoClear LV Fast / Slow 50/50 Blend Accelerated	50 min

Spray Gun Set-Up Consult spray gun manufactures instructions for specific spray gun pressure specifications.



Spray Gun	Fluid Tip	Application Pressure
HVLP Gravity Fed	1.3-1.4 mm (0.071-0.087")	8-10 psi at the cap (0.65-0.8 bar at cap)
Compliant Gravity Fed	1.3-1.4 mm (0.055-0.059")	8-10 psi at the cap (0.65-0.8 bar at cap)

APPLICATION TECHNIQUE

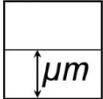
Application



Apply one medium closed coat allowing for 5-10 minute flash. Next, apply a full coat allowing for 0-10 minute flash before baking.

Note: Flash off between coats, in case of application to larger areas a minimal flash off time between coats is required.

Film Thickness – Using Suitable Application
1.0-1.2 mils (25 – 30 microns) per single coat
1.7 – 2.4 mils (43 – 60 microns) total clearcoat



Universal EcoClear LV™

Technical Data Sheet
Clearcoat
03/30/2017
Page 4 of 6

DRYING / CURING TIME

Drying / Curing



Drying times are stated a recommended application method, film thickness and object temperature.

Clearcoat Mixtures	70°F (21°C) Metal Temp		140°F (60°C) Metal Temp	
	Dust Free	Dry	Dust Free	Dry
Slow Clear	1 hour	4 hours	20 min	30 min
Fast Clear	25 min	2.5 hours	10 min	15 min
25 / 75 ratio of Slow / Fast Clear	40 min	3 hours	10 min	20 min
50 / 50 ratio of Slow / Fast Clear	40 min	3.5 hours	10 min	20 min
75 / 25 ratio of Slow / Fast Clear	40 min	3.5 hours	15 min	25 min

Drying times – Accelerated Mixtures

Clearcoat Mixtures	70°F (21°C) Metal Temp		140°F (60°C) Metal Temp	
	Dust Free	Dry	Dust Free	Dry
Slow Clear Accelerated	45 min	2.5 hours	15 min	30 min
Fast Clear Accelerated	15 min	1.5 hours	5 min	15 min
25 / 75 ratio of Slow / Fast Clear Accelerated	30 min	2 hours	10 min	15 min
50 / 50 ratio of Slow / Fast Clear Accelerated	35 min	2 hours	10 min	15 min
75 / 25 ratio of Slow / Fast Clear Accelerated	35 min	2 hours	10 min	15 min

POST-APPLICATION

Recoating



Universal EcoClear LV can be recoated with itself at any stage. Sanding will become necessary after 24 hours.

Polishing



Dust and minor damage 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 to polishing recommendations.

Ready to polish approximately 1 hour after cool-down to ambient temperature.

Decals

Decals can be applied after 48 hours at 70°F (21°C)

Lettering

Hand striping or lettering must be applied within 48 hours for good adhesion. After 48 hours, scuff with a grey scuffing pad.

Universal EcoClear LV™

Technical Data Sheet
Clearcoat
03/30/2017
Page 5 of 6

ADDITIONAL INFORMATION

Cleaning of Equipment



Clean equipment following local and federal regulations using a high quality solvent borne gun cleaner.

Theoretical Coverage



Ready for use mixture at 1 mil of dry film thickness with 100% TE; 650-700 sq ft/gallon or 16.7 m²/liter

VOC / Regulatory Information



Ready to Spray VOC

(2:1) When mixed ready to spray

Universal EcoClear LV Fast/Slow yields a VOC content of: 2.02 lb/gal (242 g/liter)

When accelerator is added to the mixture, VOC content is 2.05 lbs/gal (246 g/liter).

Notice: Do not handle until the Material Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an air-supplied respirator when exposed to vapors or spray mist.

Product Storage



Stock unopened or used products in approved closed containers with proper labeling. Store in moderate temperatures between 40°F - 95°F (5°C – 35°C). Avoid too much temperature fluctuation. Optimum storage temperature is approximately 70°F (21°C).

Universal EcoClear LV Fast and Slow	1 year
Universal EcoClear LV Hardener	6 months

Universal EcoClear LV™

Technical Data Sheet
Clearcoat
03/30/2017
Page 6 of 6

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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 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 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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