

# LV151 DTM Topcoat

LV151 DTM Topcoat is a two pack Direct-To-Metal topcoat finish for commercial vehicles and industrial equipment. LV151 DTM Topcoat is a 3.5 pound per gallon VOC compliant direct to metal finish designed for chassis and trailers. It is also a versatile finish available 70, 50 and 30 gloss unit formulas. The product is designed for conventional, plural component and airless application.



### Safety Considerations

- Use suitable personal protection.
- AkzoNobel recommends the use of a fresh air supply respirator.
- Refer to the product Safety Data Sheet (SDS) for more complete safety information.



### Suitable Surfaces

- Steel
- Steel, Cold or Hot Rolled
- Steel, Hot Dip Galvanized
- Stainless Steel
- Aluminum 2024 T3
- Aluminum 5052 H32
- Aluminum 7075 T6
- Blasted to white metal
- P80 to P120 grit dry
- P180 grit dry or red scuff pad
- P180 grit dry
- P220 grit dry
- P220 grit dry
- P220 grit dry



STICK #23

Mix	By Volume
5	LV151 DTM ready mix color
1	LV151 DTM Hardener



### Spray-Gun Set-Up

- HVLP – 1.9mm
- Compliant – 1.8mm
- Pressure Feed – 1.4mm

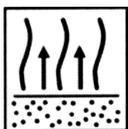
### Application Settings

- HVLP – 10 psi (0.68 bar) at cap maximum.
- Consult manufacturer's specifications.
- 12oz. per minute.



### Application

- Apply one (1) to two (2) single flowing coats with no flash between coats.



### Flash Between Coats at 70°F (21°C)

- None required.

### Flash at 70°F (21°C) Before Force Drying

- 15 minutes.



### Air Drying at 70°F (21°C)

- Dry to Handle in 4-½ hours

*Dependent of film weight.*

### Force Drying at 140°F (60°C)

- Dry to Handle in 45 minutes

Read complete TDS for detailed product information.

**Description**

LV151 DTM Topcoat is a two pack Direct-To-Metal topcoat finish for commercial vehicles and industrial equipment. LV151 DTM Topcoat is a 3.5 pound per gallon VOC compliant direct to metal finish designed for chassis and trailers. It is also a versatile finish available 70, 50 and 30 gloss unit formulas. The product is designed for conventional, plural component and airless application.

**Suitable Substrates**



- Steel
  - Steel, Cold or Hot Rolled
  - Steel, Hot Dip Galvanized
  - Stainless Steel
  - Aluminum 2024 T3
  - Aluminum 5052 H32
  - Aluminum 7075 T6
  - AutoPrep Pretreatment Wipe
  - Henkel Bonderite 1000 Pretreatment
  - Henkel 457 followed by 5700
- Blasted to white metal
  - P80 to P120 grit dry
  - P180 grit dry or red scuff pad
  - P180 grit dry
  - P220 grit dry
  - P220 grit dry
  - P220 grit dry

Note: Any other chemical cleaners and/or pretreatments must be pre-approved by AkzoNobel.

**Products and Additives**

- |                |   |   |
|----------------|---|---|
| <b>Product</b> | <ul style="list-style-type: none"> <li>• BT LV650 Toners</li> <li>• LV151 DTM Converter LG (B151LG)</li> <li>• LV151 DTM Converter MG (B151MG)</li> </ul> | <ul style="list-style-type: none"> <li>- Mixed to prescribed color formula</li> <li>- Item #555899</li> <li>- Item #555898</li> </ul> |
|----------------|---|---|

- |                  |  |  |
|------------------|--|--|
| <b>Hardeners</b> | <ul style="list-style-type: none"> <li>• LV151 DTM Hardener</li> </ul> | <ul style="list-style-type: none"> <li>- Item #555930</li> </ul> |
|------------------|--|--|

- |                  |  |  |
|------------------|--|--|
| <b>Additives</b> | <ul style="list-style-type: none"> <li>• LV151 DTM Airdry Additive             <ul style="list-style-type: none"> <li>○ <i>Mixtures containing this additive are not warranted.</i></li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>- Item #564241</li> </ul> |
|------------------|--|--|

**Basic Raw Materials**



- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• BT LV650 Toners</li> <li>• LV151 DTM Converters</li> <li>• LV151 DTM Hardener</li> <li>• LV151 DTM Airdry Additive</li> </ul> | <ul style="list-style-type: none"> <li>- Acrylic/polyester resins and pigments</li> <li>- Acrylic/polyester resins</li> <li>- Poly-isocyanate resin</li> <li>- Acrylic resin/reactive solvent and catalyst</li> </ul> |
|--|---|

**Substrate Preparation**



**Pre-Cleaning**

- Clean with M600 Surface Cleaner, AutoPrep Ultra-Prep (VOC compliant) surface cleaner or equivalent.



**Sanding & Surface Preparation**

Substrate	Preparation	Additional Notes
Steel	Blasted to clean white appearance.	
Cold Rolled Steel	#P80 – P120 Dry	
Hot Rolled Steel	#P80 – P120 Dry	Mil scale removed.
Hot Dip-Galvanized Steel	#P180 Dry or a red scuff pad	
Aluminum	#P220 Dry	
AutoPrep Pre-Treatment	Per AutoPrep Pre-Treatment TDS.	
Henkel Bonderite 1000 Pre-Treatment	Per Henkel Process.	Per Henkel Process.
Henkel Deoxidine 457 followed by Henkel Anodyne 5700	Per Henkel Process.	Per Henkel Process.

Note: Any other chemical cleaners and/or pretreatments must be pre-approved by AkzoNobel.



**Final Cleaning, Sanded Surfaces – Prior to Paint Application**

- Clean with M600 Surface Cleaner, AutoPrep Ultra-Prep (VOC compliant) surface cleaner or equivalent.

**Product Preparation**



**Agitation**

- Because LV151 is high solids paint it needs to be agitated before use.
- Stir or shake vigorously before each use.

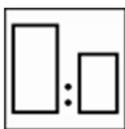
**Mixing – Formulas**



- LV151 DTM is available 70, 50 and 30 gloss unit formulas.
- These can be accessed in the Color Manager mixing program.

Note: Due to color, application and environmental factors gloss levels may vary by 10 gloss units.

**Mixing – By Volume**



STICK #23

**Mix**  
**5**  
**1**

**Normal Temperatures**  
Parts LV151 DTM ready mix color  
Parts LV151 Hardener

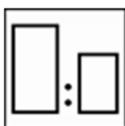
- There is an airdry additive available for LV151 DTM Topcoat. It is designed for use in cooler temperatures to promote curing. Be aware that mixtures including LV151 Airdry Additive are not warranted.



**Mix**  
**100**  
**2.5-5**

**Air Dry Mixture**  
Part LV151 DTM ready mix color  
Parts LV151 DTM Airdry Additive

**Then harden the mixture as follows –**

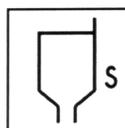


STICK #23

**5**  
**1**

Parts LV151 DTM ready mix color + LV151 DTM Airdry Additive  
Parts LV151 Hardener

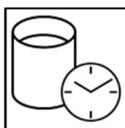
**Viscosity – Ready to Spray**



N/A

- LV151 has a thixotropic nature and cannot be measured by viscosity cup.

**Pot-Life When Mixed**



**Product Mix**

• LV151 mixed and ready to spray	<b>70°F (21°C)</b>
• LV151 including Air Dry Additive and ready to spray	– 1 to 1.25 hours
	– 30 to 45 minutes

**Spray Gun Set-Up**

**Consult spray gun instructions for specific spray gun pressure specifications.**



Spray Gun	Fluid Tip	Application Pressure
HVLP Gravity Fed	1.9mm	<10 psi (0.68 bar) at cap.
Compliant Gravity Fed	1.8mm	PSI Per spray gun manufacturer.
Pressure Fed	1.4mm	12oz. per minute. PSI Per spray gun manufacturer.
<b>Graco</b> <b>Air Assisted Airless</b>	4.11 – 4.15 5.11 – 5.15	Material pressure 1160-1958 psi (80-135 bar). Atomizing pressure 22-51 psi (1.5-3.5 bar).

**Application**



- Apply one (1) to two (2) single flowing coats.

**Flash Drying at 70°F (21°C)**



**Between Coats:**

- There is no flash between coats required.

**Before Forced Drying:**

- 15 minutes.

**Drying / Curing Time**



Temperature	59°F (15°C)	70°F (21°C)	104°F (40°C)	140°F (60°C)
• Dust Free	1-½ hours	2-½ hours	1-¼ hours	30 minutes
• Dry to Handle	1-¾ hours	4-½ hours	1-½ hours	45 minutes

- Drying times are stated a recommended application method, film thickness and object temperature.
- Drying at less than 70°F (21°C) listed incorporating LV151 Airdry Additive.

**Film Thickness – Using Suitable Application**



- 1-2 Coats will achieve a thickness of 3.0 – 5.5mils (70 - 140μm).
- The minimum total thickness required is 3.0mils (70μm) for adequate protection and appearance.

**Theoretical Coverage**



- Ready for use mixture at 1mil dry film thickness with the recommended application the theoretical material usage is ±802 feet<sup>2</sup>/gallon (19.7m<sup>2</sup>/liter).
- Theoretical coverage is dependent of many factors. These may include; the shape of the object, surface smoothness, application technique and other application variables.

**Recoating**



- LV151 DTM may be recoated with itself at any time up to 24 hours. After 24 hours it must be sanded before reapplication.
- At the time of publication other paint materials suitable over LV151 have not been determined.

**Cleaning of Equipment**



- Clean equipment following local and federal regulations. In compliant localities, use a VOC compliant high-quality solvent borne gun cleaner. For national rule regions, a use high quality lacquer thinner.
- For efficient cleaning and less evaporated cleaning solvents, an enclosed automatic gun cleaning machine is suggested.

**VOC / Regulatory Information**



**Product**

- LV151 Topcoat (Ready to Spray)

**VOC Pounds per Gallon**

<3.50

**VOC Grams per Liter**

<420

**Product Storage**



Stock unopened or opened 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)

- |                             |           |
|-----------------------------|-----------|
| • Autocoat BT Toners        | – 2 Years |
| • LV151 DTM Converter       | – 1 Year  |
| • LV151 DTM Ready Mixed     | – 1 Year  |
| • LV151 DTM Airdry Additive | – 1 Year  |
| • LV151 DTM Hardener        | – 1 Year  |

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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 Safety 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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