



Rival™ DTM Topcoat



GENERAL

DESCRIPTION

A 3.5 lbs./gal (420 g/l) VOC, two-component, direct to metal urethane topcoat designed for one step applications in non-corrosive to mildly corrosive environments. It features high build, easy application, and good performance gloss retention and appearance.

SUGGESTED USES

Commercial Vehicle applications such as chassis refinishing where a high build, high gloss, durable DTM polyurethane is desired for use over properly prepared carbon steel, weathered galvanized steel and aluminum.

COMPATIBILITY WITH OTHER COATINGS

- Compatible with Axalta Commercial Transportation undercoat systems for additional corrosion performance
- May be used over prepared cured coatings in good condition

NOT RECOMMENDED FOR

- Immersion Service
- Severe corrosive environments as a DTM system only

DRY FILM CHARACTERISTICS

Chemical Resistance	EXCELLENT
Weatherability	EXCELLENT
Humidity Resistance	EXCELLENT
Acid Resistance	EXCELLENT
Alkali Resistance	EXCELLENT
Solvent Resistance	EXCELLENT
Abrasion Resistance	EXCELLENT
Flexibility	EXCELLENT

FACTORY PACKAGE COLORS

RV901	Black	Full gallon size
RV902	White	Full gallon size

Note: Custom mix colors are not available

The products referenced herein may not be sold in your market. Please consult your distributor for product availability.



MIXING

MIX RATIO

Thoroughly mix prior to activation. The use of a Cyclone® shaker is recommended. Combine components and mix thoroughly. Filter material prior to spray application.

Component	Volume
Rival™ RV901™ or RV902™ DTM Topcoat	6
RV128™ or RV135™ Activator	1

ADDITIVES

Increased cure rate:
Add up to 2 oz. 389S™ Accelerator per RTS gallon.

VISCOACITY

10-16 seconds in a Zahn #3



INDUCTION TIME

No induction time required.

POT LIFE - 70°F (21°C)

2 hours as activated

1 hour with 389S™ accelerator



APPLICATION

SURFACE PREPARATION

Rival DTM Topcoat can be applied as a DTM over properly prepared: steel, weathered galvanized and aluminum surfaces.

All surfaces should be cleaned with surface cleaning solvent to remove any contaminants or oil contamination prior to priming.

- Steel substrate abrasive blast preparation is preferred with a blast profile of 1.5 to 2.0 mils. If blasting is not possible, manual sanding is required with 80 – 120 grit.
- Aluminum surfaces should be properly treated with either an Alodine process, fine grit blast or mechanical sanding with 120 – 150 grit.
- Weathered galvanized steel surface preparation may include detergent washing and sanding with 80 – 120 grit.

For additional protection, Rival DTM Topcoat can also be used over properly primed surfaces.

APPLICATION EQUIPMENT

Refer to spray equipment documentation for setting recommendations.

Pressure Pot (recommended)

Gravity Feed

Suction Spray

Air-Assisted Airless

APPLICATION CONDITIONS

Do not apply if material, substrate or ambient temperature is less than 50°F (10°C) or above 110°F (43°C). The substrate must be at least 5°F (3°C) above the dew point. Relative humidity should be below 90%.

APPLICATION

- Pressure pot application is recommended. Fluid delivery should be set for 10-12 ounces per minute.
- Apply using a cross-coat technique - a wet coat using a top-to-bottom motion and a wet second coat using a side-to-side motion. Flash 30 seconds to 5 minutes between coats. Wet film thickness should be checked and additional DTM topcoat applied as necessary to achieve desired coating build.
- Target wet film thickness is 8 to 10 mils, resulting in a dry film build of 4.0 – 5.0 mils dry film thickness.
- Recoating Rival™ DTM Topcoat requires sanding if it has air dried more than 16 hours or has been force dried.

APPLICATION SOLVENTS

- Additional reduction is not recommended due to having an affect obtaining film build and sag control during application.
- Ready-to-spray VOC is below 3.5 lbs./gal VOC upon activation. Further reduction may result in greater than 3.5 VOC.

ADDITIONAL COMMENTS



Heating activated material above 110°F (43°C) will cause gelation.

CLEANUP SOLVENTS

- 130™ Acetone
- 105™ Lacquer Thinner
- 107™ Low VOC Gun Cleaner
- 108™ Low HAPS Cleaning Solvent



AIR DRY

Cure Time at Recommended Thickness – 77°F (25°C) and 50% RH

	No Accelerator	With 389S™
Dry to Touch	1.5 - 2.0 hours	0.5 - 1.0 hours
To Handle	6 hours	4 hours

FORCE DRY

Not recommended



PHYSICAL PROPERTIES

Maximum Service Temperature:	200°F (92°C) in continuous service
Weight Per Gallon (component only):	RV901 8.62 lbs./gal, RV902 11.02 lbs./gal
Weight Per Liter (component only):	RV901 1033 g/L, RV902 1321 g/L
Suggested Dry Film Thickness:	4.0 – 5.0 mils Dry Film Thickness
Gloss:	High
Color:	RV901 Black, RV902 White
Flash Point (Closed Cup):	See MSDS/SDS
Shelf Life:	12 months minimum

RV901™ RTS mixed 6:1 with:

Includes 389S

	RV128	RV135
Gallon Weight pounds per gallon	8.650	8.65
Gallon Weight grams per liter	1042	1037
VOC AP pounds per gallon - Maximum	2.8	3.0
VOC AP grams per liter - Maximum	334	355
VOC LE pounds. per gallon - Maximum	3.1	3.3
VOC LE grams per liter - Maximum	372	390
Weight Solids	57.8%	56.6%
Volume Solids	51.0%	49.6%
Weight Volatiles	42.2%	43.4%
Weight Water	0.2%	0.2%
Volume Water	0.2%	0.2%
Weight Exempt Solvents	10.0%	8.9%
Volume Exempt Solvents	9.9%	8.7%
Theoretical Coverage per RTS Gallon at 1 mil DFT	818 ft2 (76.0 m2)	796 ft2 (74.0 m2)

RV902™ RTS mixed 6:1 with:

Includes 389S

	RV128	RV135
Gallon Weight pounds per gallon	10.72	10.67
Gallon Weight grams per liter	1285	1279
VOC AP pounds per gallon - Maximum	2.7	2.9
VOC AP grams per liter - Maximum	323	344
VOC LE pounds. per gallon - Maximum	3.1	3.2
VOC LE grams per liter - Maximum	371	389



Weight Solids	64.2%	63.4%
Volume Solids	49.5%	48.1%
Weight Volatiles	35.8%	36.6%
Weight Water	0.0%	0.0%
Volume Water	0.0%	0.0%
Weight Exempt Solvents	10.6%	9.7%
Volume Exempt Solvents	12.9%	11.7%
Theoretical Coverage per RTS Gallon at 1 mil DFT	794 ft ² (73.7 m ²)	772 ft ² (71.7 m ²)

VOC REGULATED AREAS

These directions refer to the use of products which may be restricted or require special mixing instructions in regulated areas. Follow mixing usage and recommendations in the VOC Compliant Products Chart for your area.

SAFETY AND HANDLING

For industrial use only by professional, trained painters. Not for sale to or use by the general public. Before using, read and follow all label and MSDS/SDS precautions. If mixed with other components, mixture will have hazards of all components.

Ready to use paint materials containing isocyanates can cause irritation of the respiratory organs and hypersensitive reactions. Asthma sufferers, those with allergies and anyone with a history of respiratory complaints must not be asked to work with products containing isocyanates.

Do not sand, flame cut, braze, or weld dry coating without a NIOSH approved air purifying respirator with particulate filters or appropriate ventilation and gloves.

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