



RIVAL™ RV500™ Polyurethane Clearcoat



GENERAL

DESCRIPTION

A two-component, polyurethane clearcoat for use in overall applications for the economy commercial transportation segment. This clearcoat is designed to deliver a high-performance, very durable finish in 2.1 lb./gal (250 g/l) VOC and 3.5 lb./gal (420 g/l) VOC levels.

SUGGESTED USES

Designed for overall repairs.

RECOMMENDED FOR USE OVER

Rival Topcoat (RV35 and RV28 qualities) as a color coat / clearcoat system.

NOT RECOMMENDED FOR

Immersion service or over alkyd enamels or lacquer finishes.

DRY FILM CHARACTERISTICS

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

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



MIXING

MIX RATIO

Stir clearcoat thoroughly prior to activation. Combine components and mix thoroughly. Filter material prior to spray application.

COMPONENTS

3.5 VOC Mixing Ratio

	Parts by Volume
Rival RV500 Clearcoat	6
RV135™ Activator	1

2.1 VOC Mixing Ratio

Rival RV500 Clearcoat	6
RV128™ Activator	1

ADDITIVES

Increased cure:

3.5 VOC

Add up to 2 oz. of 389S™ Accelerator per activated gallon

2.1 VOC

Add up to 2 oz. of 389S Accelerator per activated gallon



INITIAL APPLICATION VISCOSITY

9-11 seconds with #3 Zahn Cup.

INDUCTION TIME

No induction time is required.

POT LIFE - 70°F (21°C)

3 hours as activated or with 2 oz. 389S Accelerator



APPLICATION

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 EQUIPMENT

Refer to spray equipment documentation for setting recommendations.

Pressure Pot	Suction Spray
Gravity Feed	Air-Assisted Airless

APPLICATION

- Allow Rival single stage topcoat solid colors to flash dry for 30 minutes prior to clearcoat application.
- To avoid mottling of the metallic flake, allow Rival metallic colors to cure overnight prior to applying clearcoat. They should be lightly scuff-sanded if allowed to dry for more than 24 hours prior to application of RV500 clearcoat.
- Apply using a cross-coat technique - a wet coat using a top-to-bottom motion and a medium-wet second coat using a side-to-side motion. Flash 30 seconds to 5 minutes between coats. In general, the shorter the flash the smoother the appearance.
- For pressure pot application, fluid delivery should be set for 10-12 fluid oz/min.
- When recoating RV500 with itself, sanding is required if the clearcoat has air dried more than 24 hours or has been force dried.

APPLICATION SOLVENTS

No reduction necessary; product is ready-to-spray. Further reduction may result in an increased VOC.

CLEANUP SOLVENTS

3850S™ Equipment Cleaner
32030S™ Acetone

ADDITIONAL COMMENTS

Heating activated material above 110°F (43°C) will shorten pot life and cause product to gel.



DRY TIMES

AIR DRY

77°F (25°C) & 50% RH at recommended film thickness

	As Activated	With 389S
Dry to touch	2 hours	1 hour
Tack free	2-3 hours	1-2 hours
Tape free	12-24 hours	6-10 hours
Dry to assemble	24 hours	16 hours

FORCE DRY

30 minutes at 130-140°F (54-60°C)



PHYSICAL PROPERTIES

Maximum Service Temperature:	200°F (92°C) in continuous service 300°F (148°C) in intermittent heat
Weight Per Gallon (component only)	8.96 lbs.
Weight Per Liter (component only)	1074 grams
Suggested Dry Film Thickness	1.5 – 2.0 mils
Gloss	High
Color	Clear
Flash Point (Closed Cup)	See MSDS/SDS
Shelf Life	12 months minimum

RTS mixed 6:1 with:

Includes 389S

	RV135	RV128
Gallon Weight pounds per gallon	8.94	8.99
Gallon Weight grams per liter	1072	1077
VOC AP pounds per gallon	1.3	1.2
VOC AP grams per liter	161	139
VOC LE pounds. per gallon	2.3	2.1
VOC LE grams per liter	279	247
Weight Solids	40.6%	41.8%
Volume Solids	38.1%	39.5%
Weight Volatiles	59.4%	58.2%
Weight Water	0.0%	0.0%
Volume Water	0.0%	0.0%
Weight Exempt Solvents	44.5%	45.3%
Volume Exempt Solvents	42.6%	43.8%
Theoretical Coverage per RTS Gallon at 1 mil DFT	611 ft ² (56.8 m ²)	633 ft ² (58.8 m ²)

VOC REGULATED AREAS

These directions refer to the use of products which may be restricted or require special mixing instructions in VOC 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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