



RAPTOR 1K PRO ENAMEL DIAMOND CLEAR AEROSOL

UP4845



DRIVING SURFACE PERFECTION Version: 1.0 Date of issue: 17/07/2020 Revision date: 17/07/2020

TECHNICAL DATASHEET

A 1K professional grade high gloss clear enamel that gives an exceptionally tough and durable finish to protect surfaces from impact and abrasions. RAPTOR 1K Enamel is more than 5x tougher than other traditional lacquers and it's unique UV Resistant formula gives a diamond clear, non-yellowing finish which resists fading from sunlight. Ideal for use on fenders, bumper covers, mirror covers, panels and moldings.



- 1K Pro Quality.
- 5 x Tougher than other traditional lacquers.
- Fast Drying
- High Gloss UV Resistant finish.
- Clog Free nozzle.

Product	Order Code	Format	Shelf Life
RAPTOR 1K PRO ENAMEL DIAMOND CLEAR AEROSOL	UP4845	370ml Aerosol	5 years

APPLICATION INFORMATION



FOR PPE RECOMMENDATIONS REFER TO SDS

This product contains hazardous materials and therefore appropriate personal protective equipment should always be used. Please refer to the label and consult the safety data sheet for full handling instructions and personal protection information.

Surface Preparation



Substrate	Degreaser	Abrasion
Solid-colour coatings Freshly applied basecoat*	SYSTEM 20 Solvent-Based Degreaser Not required	P800 - P1000 Not required

For best results, good preparation is essential. Clean and degrease removing dirt, oil, grease and wax with cleaning solutions such as U-POL's SYSTEM 20 Degreasers (please check local VOC regulations). Abrade with grit paper as stated above for each respective substrate. Re-clean, dry and degrease the abraded substrate ready for application.

*For application over:

- solvent-based basecoat: apply RAPTOR 1K Pro Enamel Diamond Clear Aerosol within 20 minutes of basecoat application.
- water-based basecoat: refer to basecoat manufacturer's technical data sheet.

Mixing



Shake the aerosol can for at least 2 minutes before use.

Application



Application Temperature	20 °C / 70 °F
Distance from the surface	25 cm / 10 inches
Number of Coats	1 – 2
Flash-off at 70°F	5 – 10 minutes between coats
Dry Film Thickness	35 µm / 1.4 MIL
Theoretical Coverage @ indicated DFT*	1.3 m ² /unit / 13.5 ft ² /unit
	*Theoretical Coverage assuming total dry film thickness is attained at 100% transfer efficiency.

Drying Time



PLEASE NOTE: drying times are dependent upon film thickness, humidity and temperature.

Dry to Handle at 70°F	30 minutes
Dust Free at 70°F	20 – 30 minutes
Dry-Through at 70°F	60 minutes

TECHNICAL INFORMATION

Physical properties



Appearance	Aerosol.
Color	Colorless
Specific gravity / density	0.931 g/cm ³



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Maximum Incremental Activity (MIR)	0.79
MIR EPA Aerosol Category	CCP 1.5 - Clear Coating
MIR CARB Aerosol Category	CCP 0.85 - Clear Coating - General Coatings
As Packaged Regulatory VOC	772 g/l (6.4 lb/gal)
As Packaged Actual VOC	708 g/l (5.9 lb/gal)
As Applied Regulatory VOC	772 g/l (6.4 lb/gal)
As Applied Actual VOC	708 g/l (5.9 lb/gal)
Percent Solids	15.61 wt%
Percent Solids	11.88 vol %
Volatiles	84.4 wt%
Water Content	0 wt%
Water Content	0 vol %
% HAPS	13.4 wt%

Storage



Aerosol cans should be stored for two hours at room temperature before use. For long term storage, keep in a dry well ventilated area and away from direct sunlight and frost. To clear the nozzle and maximise the lifespan of your aerosol, always invert the can and spray upside down for a few seconds after each use. Should the nozzle become blocked, remove it from the can and soak it in gentle thinners.

Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Keep container tightly closed. Keep cool.

Recommended storage temperature 40 °C - 75 °F

Associated Products



Product	Order Code	Format	Shelf Life
SYSTEM 20 Water-Based Degreaser	UP2002	5L Canister	5 years
SYSTEM 20 Solvent-Based Fast Degreaser	UP2012	5L Tin	5 years
SYSTEM 20 Solvent-Based Slow Degreaser	UP2022	5L Tin	5 years

For further information on U-POL products, please visit www.u-pol.com

For additional technical assistance, please contact the U-POL Technical Department at technicalsupport@u-pol.com

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