

QUANTUM 2KA

TWO COMPONENT AEROSOL POLYURETHANE TOPCOAT



INTRODUCTION

Quantum 2KA provides Quantum⁹⁹ Polyurethane Topcoat in a unique two component aerosol delivery system. Quantum⁹⁹ is a two-component acrylic-polyester hybrid coating engineered for beauty and protection in harsh marine environments. This high solids topcoat provides superior protection and beauty to watercraft, aircraft, and other specialty equipment requiring excellent chemical and weather resistance, excellent repairability, superior durability, superior stain resistance, and superior DOI. Available in standard marine, metallic, and custom colors.

USES

Quantum⁹⁹ Polyurethane Topcoat is used as an ultra hi-gloss repairable topcoat. Though specifically designed to withstand harsh marine environments and aerospace specifications, Quantum⁹⁹ is suitable for almost any application requiring beauty, UV protection, and abrasion/chemical resistance. For exterior and interior use. Do not use below the waterline.

While originally designed for touch-ups and boot stripes on mega yachts and OEM, Quantum 2KA provides enough coverage with multiple cans to use as full application for most trailered watercraft.

FEATURES

- Quantum⁹⁹ polyurethane topcoat designed to maintain beauty and protection in harsh marine environments
- Unique two component aerosol delivery system
- No measuring, exact mix ratio engineered into delivery system
- Advanced propellant technology provides excellent atomization, consistent flow rate and allows cans to fully empty
- No clean-up, simply discard empty cans (recyclable)
- Excellent flow, easy to apply
- Superior durability
- Superior gloss clarity
- Excellent repairability
- Coverage/can = 27.5 ft² @ 1 mil





PHYSICAL PROPERTIES

Appearance:	ultra hi-gloss, various colors
Gloss:	>92 @ 60°
DOI:	>84 @ 20°
Viscosity (admixed):	16 - 18 Zahn #2
Volume solids (admixed):	52+/-2%
Pot life:	4 hours @ 72°F
Coverage @ 1 mil (no loss):	800-825 ft²/gal
Coverage @ 3 mils (no loss):	250-275 ft²/gal
VOC (admixed):	<420 g/l (3.5 lbs/gal) - all colors
Pencil Hardness:	2H
Impact Resistance:	Direct/Reverse > 80 in/lb
Shelf Life:	2 years from DOM

APPLICATION

PRIMERS AND SUBSTRATES

Quantum⁴⁵ Epoxy Surfacing Primer (220 or finer abraded)
 Quantum^{HB} Epoxy High Build Primer (220 or finer abraded)
 Quantum 4599 Urethane Primer Sealer
 Quantum Adhesion Promoting Surface Treatment (45-X-117)
 Properly prepared gelcoat or previously painted surfaces



SURFACE PREPARATION

Properly abraded, etched, and cleaned metal surfaces should be primed with corrosion inhibiting primers, such as Quantum⁴⁵ Chromated Epoxy Primer. The Quantum⁴⁵ Epoxy Surfacing Primer or Quantum^{HB} Epoxy High Build Primer should be applied over Quantum⁴⁵ Chromated Epoxy Primer and sanded to the desired smoothness before applying the Quantum 2KA Topcoat.

Quantum⁴⁵ Primers can be applied directly to properly abraded wood, fiberglass/gelcoat, carbon fiber, and previously painted surfaces. Solvent clean with SR-002 Quantum Surface Prep Cleaner prior to application such that surfaces are free from dust, oils, corrosion or any other contaminants using lint free cloth and the wipe-on/wipe-off method. Tack rags are not necessary or recommended prior to Quantum 2KA application. Refer to primer data sheets for complete application details. See EMC's Quantum Product Selection Guide for recommended primer/topcoat systems.

ACTIVATION



Before activating, shake aerosol for 2 min vigorously.



Take red button from cap. Turn aerosol upside-down and attach button to pin on aerosol bottom. Place aerosol on firm ground - upside-down. Press red button with the ball of your hand until stop is reached.



After activating, shake aerosol again vigorously for 2 min.



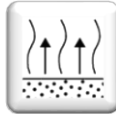
SPRAY APPLICATION



Perform a preliminary test spray prior to application to ensure smooth spray pattern.



Spray apply in smooth, homogeneous coats, keeping spray can vertical as much as possible. Spray in a snaking pattern from top to bottom. Best results are with a 10-inch wide pattern and 50% overlap, 6-10 inches away from substrate. Subsequent coats can be applied once first coat is not transferring paint when touched (~45 minutes @ 72F). Usable pot life is approximately 12 hours after activation.



NOTE: Application of these product systems requires recommended temperature/humidity conditions and film thickness ranges. The material, hangar, and substrate temperature should be no lower than 45°F before, during, and after application. Do not apply paint materials to surfaces less than 5°F above dew point, or to surfaces warmer than 125°F. Substrate temperature should be minimum 45°F to maximum 125°F.

CLEAN-UP

N/A. Once can is emptied it can be discarded. Empty cans are recyclable.

PROTECTIONS

Personal protection is required. Respirator mask type A2/P2 and protective gloves.

NOTE ON SAFETY

This product contains isocyanate. Persons with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapor or spray mist. Before using read all safety information on the aerosol label and the material safety data sheet.



DRY TIMES

AIR DRY² (@ 72F, 50% RH)

Touch	1 hour
Through	4 hours
Tape	8 hours
Polish	36 hours
Light Service	36 hours
Full Cure	7 Days
Overcoat (self)	15 minutes / 24 hours max ³
Overcoat (clear)	1 hour min / 24 hours max ³

²Air dry and overcoat times are dependent on shop conditions. Use 99-X-105 Urethane Accelerator to accelerate dry times. ³If recoating after 24 hours, scuff sand with 320-800 grit and/or use 45-X-117 Adhesion Promoting Surface Treatment.

