

QUANTUM⁴⁴⁹⁹ PRIMER SEALER



INTRODUCTION

Quantum 4599 is a fast-dry epoxy/urethane primer sealer designed for spot, panel, and overall repairs. It provides excellent flow and levelling, topcoat holdout, and fast overcoat and nib sanding times.

USES

Quantum 4599 is designed to spot prime a finish primed surface where breakthrough has occurred to seal underlying products. Quantum 4599 can also be used as the finish primer for properly prepared gelcoat and fiberglass surfaces where fairing and surfacing are not required. Sanding is not required prior to applying Quantum⁹⁹ Polyurethane Topcoat within the recoat window.



PHYSICAL PROPERTIES

Appearance (Gloss):	White or Gray; Satin Finish
Viscosity (admixed):	16" Zahn #2
Volume solids (admixed):	42.5 +/- 2%
Pot life @72F:	2 hours
Coverage @ 1 mil (no loss):	675 ft ²
Coverage @ 3 mils (no loss):	225 ft ²
VOC (admixed):	<420 g/L
Pencil Hardness:	2H
Shelf Life:	2 years from DOM

MIXING

Shake or stir 4599 Base such that there is no material left on bottom or sides of can. Thoroughly mix 4 parts 4599 Base with 1 part 99-A-100 Urethane Spray Activator by volume. Though not normally required, a 10-15% reduction (v/v) of the admixed paint with SR-99 Medium Reducer may be used for proper atomization, film thickness control, and a smooth film appearance. Allow mixed material to stand for 10 minutes prior to reduction and application.



COMPONENTS

4599-PS-110	Quantum Primer Sealer Base
99-A-100	Quantum ⁹⁹ Spray Activator
SR-99	Quantum ⁹⁹ Spray Reducer

MIX RATIO



SPRAY	PARTS	EXAMPLE
4599-PS-110	4	8 oz.
99-A-100	1	2 oz.
SR-99	0-0.15	0-0.9 oz.



APPLICATION



SURFACE PREPARATION

Degrease all surfaces using water, mild abrasive detergent, and scour pad prior to abrading.

Gelcoat/Fiberglass - Abrade with 180-220 grit sandpaper.

Wood - Abrade with 180-220 grit sandpaper.

Previously Painted Surfaces - If no corrosion byproducts are present, abrade w/ 180-220 grit sandpaper to remove gloss.

Metal - Prime with Quantum⁴⁵ Chromated or Surfacing Epoxy Primer prior to 4599 Primer Sealer application.

4599 Primer Sealer is not recommended for DTM application.

Solvent clean all surfaces with SR-002 Quantum Surface Prep Cleaner prior to application such that surfaces are free from dust, oils, corrosion or any other contaminants.



SPRAY APPLICATION

EQUIPMENT¹

Gun Type	Nozzle	Air Pressure
Conventional Siphon Feed	1.2-1.4 mm	28-32 psi
Conventional Gravity Feed	1.2-1.4 mm	28-32 psi
Conventional Pressure Feed	0.8-1.2 mm at 8-10 oz/min	28-32 psi
HVLP Gravity Feed	1.2-1.4 mm	8-10 psi at cap
HVLP Pressure Feed	0.8-1.2 mm at 8-12 oz/min	8-10 psi at cap

¹Refer to the manufacturer's directions for gun specific recommendations.

SPRAYING

Apply in 1-2 uniform coats to desired coverage and smoothness. Pot life is 2 hours @ 72°F.



DRY/OVERCOAT TIME

Sanding is not required prior to topcoat application; however, surface will be able to be lightly nib sanded in 45 minutes @ 72°F. Quantum⁹⁹ Polyurethane Topcoat may be applied after 1 hour @ 72°F. Reactivate surfaces that have cured longer than 72 hours @ 72°F.

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.

