

N-9564A DynaGuard Black Spray On Coating



Intended Uses:

DynaGuard spray on coating is a high performance polyurethane coating designed to produce a textured surface for application to properly prepared metal substrates where a superior coating is required to produce a UV, abrasion, and chemical resistant surface.

Physical Properties

Color:	Black	Substrate Tested:	Zinc Phosphate Pretreated Steel
Gloss:	20 -40 Units @ 60°	Salt Spray (B117): Q-Steel panels prepared at a combined primer/top coat system of 3.5-4.5 dft	336 hrs – 1000 hrs dependent on primer selection
Volume Solids:	56.1 +/- 2%	Humidity:	336 hrs – 1000 hrs dependent on primer selection
Weight Solids:	72.85 +/- 2%	QUVA (340):	800 hrs
Weight Per Gallon:	11.9 +/- 0.3 lbs/gallon	Pencil Hardness:	2H
Theoretical Coverage:	90 sq ft/gal @ 10 mil DFT	Impact Direct/Indirect:	40 inch-pounds
VOC:	2.3 lbs/gal max	Crosshatch Adhesion:	Pass 5
Recommended Film Thickness:	10 – 50 mils DFT (depending on desired look and size of texture)		
Viscosity:	100 KU		

Chemical Resistance

MEK, 100 Double Rubs:	Pass	Formula 409 / Simple Green:	Pass 24 hr. watch glass
Lubricating and Cutting Oils:	Pass 24 hr. watch glass	Motor Oil:	Pass 24 hr. watch glass
Hydraulic Fluids:	Pass 24 hr. watch glass	Break Fluid:	Pass 24 hr. watch glass
Water Immersion:	Pass 24 hr. watch glass	Gasoline:	Pass 24 hr. watch glass

Application Characteristics

Mix Ratio:	9:1 with T-422 or 3.2 ounces per quart can (106.6 grams per quart), N-9564A is supplied in a short filled dome top quart can that be topped off with T-422. The can is designed to allow for the use of a 3M Schutz Applicator Gun #08997. This product is also available in bulk filled 1's or 5's for the use with pressure feed equipment with large orifice air cap and needle assembly.			
Pot Life:	2-3 hours			
Reducer:	None. Ready to spray.			
Cleaning Solvent:	T-210 or urethane grade thinner, Xylene, MAK or MEK			
Dry Times:	Touch: 2 Hours	Recoat: After 1 Hour	Handle: 4 hrs	Pack/Ship: Overnight
Force Cure:	Force dry at 180°F for 30 minutes.			
Full Cure:	7-days @ 77° F 50% Relative Humidity. Note: Allow a minimum of 5-7 days at 77° F prior to placing heavy loads on top off N-9564A.			
Note: Test Performed @ 77° F 50% Relative Humidity				

Technical Data Sheet

N-9564A DynaGuard Black Spray On Coating *Recommended Primers*



Substrate	Recommended Primer
Aluminum/Galvanized Steel/Stainless Steel:	B-875/T-63 or N-8564A/N-8564B Wash Primers and N-1981T/B, N-8901A/B or N-8959A/B Epoxy Primers.
Ductile or Grey Iron Castings:	N-1981T/B, N-8901A/B, or N-8959A/B Epoxy Primers. For extended corrosion protection utilize, N-8093A/B 54% or N-8669A1/B 90% Zinc Rich Epoxy Primers.
Plastics:	Due to the wide variety of plastic/fiberglass substrates, system performance should be tested and confirmed on actual substrate.
Previously Painted Surfaces:	Surface should be intact and sound. All loose and flaking material removed and bare spots primed with an appropriate primer. All surfaces should be prepared prior to application by sanding with 80-120 grit sandpaper or equivalent Scotch-Brite™ pad. It is important that all of surface area to be coated is sanded. To insure compatibility with the prior coating, an inconspicuous area should be tested with N-9564A/T-422R to assure compatibility.
Steel:	N-1981T/B, N-8901A/B or N-8959A/B Epoxy Primers. For extended corrosion protection utilize, N-8093A/B 54% or N-8669A1/B 90% Zinc Rich Epoxy Primers.
Wood:	Due to the wide variety of wood substrates, system performance should be tested and confirmed on actual substrate.

Application Equipment

3M Schutz Gun	Air Pressure: 30 – 70 psi (adjusted to obtain desired appearance and coverage)	Fluid Pressure: N/A	Cap: As Supplied Tip: As Supplied
Conventional Spray: Binks Model 7E2 Spray Gun, Supplied by a bottom feed pressure pot with 3/4" fittings.	Pressure: Fluid: 15-20psi, 3/4" Fluid hose 25' in length. Atomizing Air: 20-25psi, 3/8" Fluid hose 25' in length.	Tip: 1/4" internal fluid nozzle with 1/4" Air Nozzle	
Airless/Air Assisted Airless:	Air Pressure: N/A	Fluid Pressure: N/A	Cap: Tip: N/A
Brush and Roll: Use for touch up only, the use of natural china chip bristle brushes is recommended. Note: this will only offer color. Texture will not be achieved unless spray applied.			
Note: The above parameters are to be used as a guideline only. Customer specific equipment may require a different set-up			

Surface Preparation

Do not apply if the application surface temperature is below 45°F (7°C) or above 110°F (43°C), or if the surface temperature is within 5°F of the dew point. It is highly recommended that sound practices as set forth by SSPC or NACE be followed when preparing a substrate for painting. At a minimum the surface should be clean of all grease, dirt, oil, rust and foreign material that would be detrimental to proper adhesion and desired performance of the coating system being applied. Previously painted surfaces should be prepared prior to application by sanding with 80-120 grit sandpaper or equivalent Scotch-Brite™ pad. Mask off all areas that you do not want coated with DynaGuard.

Safety Precautions

This product is intended for professional use in an industrial environment only! Consult the Material Safety Data Sheet prior to application for detailed information on the health and safety hazards.

Shelf Life & Storage Conditions

Shelf life (protected from atmospheric moisture): 12 months from the date of manufacture. This product must be stored in accordance with local, state, and national regulations. Preferred storage conditions: Keep containers in a dry space with adequate ventilation.

Comments

Remove the cover from the quart can of N-9564AA. Add the appropriate amount 3.2 ounces of T-422 then replace the cover and shake vigorously for 2-3 minutes. Remove the cover and attach the 3M Schutz gun directly to the quart can. For Bulk material the use of a mechanical mixer is highly recommended. Mix with a paint shaker prior to use. Ambient application temperature should be between 60°F and 90°F. Best results with relative humidity above 10% and less than 80%.

Note

The above information is supplied as a guideline to our customers. The user must be aware of the cleaning, pretreatment, application and testing requirements for their specific job!