SEMICONDUCTING EPOXY

TWO-COMPONENT, GRAPHITE

NCP	GLYPTAL	COLOR
GLY-C2251A	C2251	Gray
GLY-C2251B	C2251H	Catalyst Part B

PRODUCT DESCRIPTION

This semiconducting epoxy coating utilizes graphite to provide controlled electrical conductivity for electrical and industrial applications requiring static dissipation or voltage grading. Formulated to cure into a durable, adherent film, it delivers consistent resistivity while maintaining strong adhesion and mechanical integrity under service conditions. The coating is designed to perform reliably under vibration, and environmental exposure, making it well suited for electrical assemblies where controlled conductivity and surface protection are critical. Commonly used in motor, generator, and electrical component applications, it supports both OEM manufacturing and maintenance operations.

Key Features & Benefits

- Provides controlled semiconducting properties through graphite-filled epoxy chemistry.
- Delivers consistent surface resistivity for voltage grading and static dissipation.
- Maintains performance under heat, vibration, and environmental exposure.
- Supports reliable electrical performance in demanding service environments.
- Suitable for motors, generators, electrical assemblies, and related components.
- Learn more at www.ncpcoatings.com/glyptal

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 (–15°C) of the dew point. Follow recognized industry best practices for substrate preparation, including SAE or AMPP (formerly SSPC/NACE) guidelines. Where applicable, comply with all required MIL-SPEC surface preparation procedures.

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 intact and sound. All loose and flaking material removed and bare spots primed with an appropriate primer. A small area should be tested with the coating to assure compatibility.

MIXING

Ratio

Part A: 2.3 parts by volume

Part B: 1 parts by volume

Guidelines

Reducer: None

Pot Life*: 6–8 hours

APPLICATION

Recommended Film Thickness: 1.5 mils, DFT

Theoretical Coverage: 489 sq. ft./gal @ 1 mil, DFT

DRY TIMES			
Touch	< 30 min	**Hard**	< 6 hours

REGULATORY INFORMATION

Volume Solids:
Part A: 30.48%
Part B: 26.62%

Weight Solids:
Part A: 39-43%
Part B: 13-16%

Weight:
Part A: 8.3-8.8 lbs./gal, 1.0-1.5 g/L
Part B: 7.2-7.4 lbs./gal, g/L

Viscosity:
Part A: 12-16 sec Zahn #3 Cup
Part B: 12-17 sec Zahn #2

VOC:
Part A: 4.85 lbs./gal, 581 g/L
Part B: 6.16 lbs./gal, 738 g/L

HAPS:
Part A: 4.16 lbs./gal, 0.5 g/L
Part B: 2.41 lbs./gal, 289 g/L

PERFORMANCE CHARACTERISTICS	
Insulation Resistance	20K-50K Ohms/sq

For additional substrates application information, contact your account manager.

SAFETY PRECAUTIONS

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

STORAGE CONDITIONS

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

For additional information contact your account manager.

The above parameters are to be used as a guideline only. Customer specific equipment may require a different set-up.

All values are mixed as final product unless otherwise stated.