

SA61D **EPOXY BAKING ENAMEL: GLOSS BLACK**

SERIES E861 SPECIFIED TO SUNDSTRAND MS37.20 SPECIFIED TO WESTINGHOUSE 32213AX

DESCRIPTION

SA61D is a single component, epoxy base baking enamel, formulated to give exceptional corrosion protection and chemical/fluid protection.

Type I enamel is thinned with SAT-100 activated thinner. Type II enamel is thinned with methyl ethyl ketone.

TYPICAL USES

· Provides heavy duty service as an exterior protective coating for all metals including magnesium.

NOTICE

Before using this product, read all warnings, limitations and safety information printed on the product label, Safety Data Sheet (MSDS) and Technical Data Sheet.

OUTSTANDING FEATURES/BENEFITS

- Offers high degree of resistance to chemical corrosion, solvent softening, abrasion and impact
- Exhibits good thermal stability
- Special pigmentation eliminates need for prime coat

COMPOSITION AND PHYSICAL PROPERTIES			
Net Weight per gallon	8.60 ± 9.30 lbs./gallon	Vehicle	Combination of epoxy resins and thermosetting latent curing agents
Weight Solids	55.0% ± 2.0%	Pigment	Carbon Black, Corrosion Inhibitors
Volume Solids	45.0% (Theoretical)	Color	Gloss Black
VOC	4.02 lbs./gallon	Gloss	80+ gloss units at 60°F
Odor	Strong solvent	Pot Life	4 days
Viscosity	50 – 70 KU @ 77°F	Coverage Rate* @ 1.0 mil	727 sq. ft./gallon (as manufactured)
Shelf Life	6 Months from Date of Manufacture	Recommended Coats	1
Storage Conditions	Store at 40°F or below IMPORTANT TO ROTATE STOCK	Dry Film Thickness	0.5 – 1.0 mil DFT recommended (use this as a guide to determine the optimum DFT for your specific application)
Freeze/Thaw Stability	Stable	Flash Point	55°F ± 2°F Setaflash
*Actual figures do not include spray loss. Also allow for surface irregularities and porosity, as well as material loss when mixing.			

PERFORMANCE AND FUNCTIONAL PROPERTIES			
Chemical/Fluid Resistance:			
Various Hydraulic Oils (including Skydrol 500)	No Effect		
Various Industrial Solvents (including Acetone, MEK, Trichloroethane)	No Effect		
MEK Double Rubs	100+		
Corrosion Protection:			
ASTM B117: Plain Steel	500 hours (@ 0.001" DFT)		
ASTM B117: Steel MIL-DTL-16232 Type Z Class 3	1000 hours		
Hardness	4H Pencil		
Operating Temperature Range	-320°F to +450°F		

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RTANT NOTICE TO BUYER / WARRANTY AND LIMITATIONS ON OUR LIABILITY arrant our products to be free of manufacturing defects and that they meet our

For maximum service, the APPLICATION INSTRUCTIONS MUST BE FOLLOWED CLOSELY.

COVERAGE

One gallon of this material will cover 727 sq. ft. with a dry film thickness of 0.001 inches. Coverage depends upon methods of application and other variables such as overspray and type of surface to be coated. Above coverage rates are based on 100% efficiency.

SURFACE PREPARATION

Please contact Sandstrom Products Company for substitute surface preparations if recommended steps cannot be followed.

Application on steel. Pre-clean surface with aliphatic naphtha or any other EPA compliant cleaner that sufficiently cleans surface to pass ASTM F22. Abrasive blast surface with 180-220 grit aluminum oxide (25-50 RMS optimum). Phosphate IAW MIL-DTL-16232 (weight should be 11-22 g/m²), type M, class 3 (optimal performance) or type Z, class 3.

Application on stainless steels. Pre-clean surface with aliphatic naphtha or any other EPA compliant cleaner that sufficiently cleans surface to pass ASTM F22. Abrasive blast surface with 180-220 grit aluminum oxide (25-50 RMS optimum). Passivate surface with ASTM A967, types nitric 1, nitric 2 or nitric 3, as applicable.

Application on aluminum and aluminum alloys. Pre-clean surface with aliphatic naphtha or any other EPA compliant cleaner that sufficiently cleans surface to pass ASTM F22. Sulfuric acid anodize IAW MIL-A-8625 and seal surface with hot deionized water (>180°F for 30 minutes).

Application on titanium and titanium alloys. Degrease surface to be coated with aliphatic naphtha or any other EPA compliant cleaner that sufficiently cleans surface to pass ASTM F22. Abrasive blast surface with 180-220 grit aluminum oxide (25-50 RMS optimum) and alkaline anodize.

Application on copper and copper alloys. Pre-clean surface with aliphatic naphtha or any other EPA compliant cleaner that sufficiently cleans surface to pass ASTM F22. Abrasive blast surface with 180-220 grit aluminum oxide (25-50 RMS optimum). Form a black oxide finish on surface.

IMPORTANT! DO NOT TOUCH CLEAN SURFACE WITH FINGERS - OIL FROM THE HANDS WILL INTERFERE WITH PROPER COATING ADHESION. Whenever possible, treat both contact surfaces (i.e., the shaft and the bearing).

STIRRING

IMPORTANT! STIR THOROUGHLY BEFORE USE AND INTERMITTENTLY DURING APPLICATION.

THINNING

To accomplish rapid, full cure-

Type I: Use 1 part of SAT-100 Activated Thinner to 2 parts of SA61D Black.

Type II: Use 1 part MEK to 2 parts SA61D Black.

APPLICATION

Properly mixed product should be sprayed to desired film thickness (0.5 - 1.0 mil) within 3-4 days of mixing components (@ 60°F).

Extending pot life: The pot life of mixed product may be extended by refrigeration until either the viscosity has increased to the point it can no longer be applied and/or the gloss and appearance of the applied film is at an unacceptable level.

BAKING, DRYING, CURING

Product may remain slightly tacky until it is baked.

After a flash time of 15 minutes, SA61D can be cured according to the following schedule:

Type I: 30 minutes @ 300°F (reduced with SAT-100) Type II: 30 minutes @ 350°F (reduced with MEK)

IMPORTANT! The time starts when the part reaches temperature, not when placed in a Class A oven.

CLEANUP

Use MEK for cleaning tools.

REMOVAL

In the event it is necessary to remove cured product, physical removal is best (such as grit blasting, sanding or grinding).

DANGER! USE WITH ADEQUATE VENTILATION.

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