

## Approvals and conformities

Dept of Navy

7125345-001

OTAN/NATO

8030-01-437-7265 (quart part A), 8030-01-437-7266 (pint part B)

Aeroglaze® 9947 two-component wash primer is designed for priming bare metal surfaces, particularly non-ferrous substrates such as aluminum. The primer may also be used on properly prepared steel, galvanized steel, fiberglass, and carbon fiber composite.

## Features & Benefits

- ♦ **Excellent Adhesion:** provides excellent adhesion to aluminum, properly prepared steel, and galvanized steel.
- ♦ **Corrosion Resistant:** provides excellent resistance without chromates. When used in conjunction with Aeroglaze or Chemglaze® polyurethane coatings, primer provides outstanding durable properties.
- ♦ **FDA Compliant:** meets requirements of FDA Dry Bulk Food Regulation Title CFR, Paragraph 175.300.
- ♦ **Infinite Recoat Time:** no maximum recoat time as long as the primed surface remains free from dirt, grease, and other surface contaminants and is protected from exposure to water.

## DIRECTIONS FOR USE

### Surface Preparation

Thoroughly clean surfaces prior to primer application to remove all dirt, oil, grease and oxides. Different substrates require specific surface preparation methods as listed below.

Before coating special alloys, chemically treated surfaces, or metal surfaces not listed below, apply Aeroglaze 9947 wash primer and topcoat to a test coupon to determine if primer will provide adequate adhesion to the surface. Aeroglaze 9947 wash primer is not recommended for use over painted surfaces or chemical conversion treatments.

### Ferrous Substrates

Remove all grease, oil, and contaminants following SSPC-SP 1 Solvent Cleaning procedures by wiping with a suitable solvent such as Aeroglaze 9958 thinner or xylene. Remove all weld splatter and prepare weld seams, rivet heads and joints using SSPC-SP 3 Power Cleaning procedures. Blast clean the surfaces using a dry, quality blast media to obtain a 51-76 micron (2-3 mil) white metal blast anchor profile. Follow SSPC-SP 5/NACE No. 1 White Metal Blast Cleaning procedures. Blast cleaning must remove all mill scale, rust, and old paint. Remove all blast material and dust from the prepared surfaces by brushing, filtered air blow-off, or vacuuming prior to primer application. Apply Aeroglaze 9947 wash primer to blast-cleaned surfaces immediately after the surface has been prepared. Blushing or rusting will occur very quickly if prepared surface is left exposed to humid air.

### Non-Ferrous Substrates

Except for stainless steel, most non-ferrous substrates such as aluminum, some alloys, and galvanized steel

are too soft to blast clean. Use SSPC-SP 1 Solvent Cleaning procedures to prepare these substrates. Perform an adhesion test to ensure Aeroglaze 9947 wash primer will adhere to prepared alloys.

#### Anodized or Chemically Treated Non-Ferrous Substrates

Abrade the surface by sanding or abrasive blast cleaning to expose bare metal. Aeroglaze 9947 wash primer will not adhere unless bare metal is exposed. If sanding or abrasive blast cleaning cannot be performed, contact your Socomore representative for an appropriate recommendation.

#### Fiber-Reinforced Plastic (FRP) or Composite Radomes

Aeroglaze 9947 wash primer may be used to prime scuff-sanded FRP or composite aircraft radomes. Its unique properties allow for easy removal with Aeroglaze 9958 or similar solvents.

#### Mixing

The mix ratio of Aeroglaze 9947 wash primer is 1:1 by volume. Thoroughly stir Aeroglaze 9947A before use. While stirring, add 1/3 of Aeroglaze 9947B and mix well. Add the rest of Aeroglaze 9947B in two additions, stirring well after each addition. Thoroughly mix the primer and allow to stand for a 15-minute induction period. Dilute up to 20% by volume with *Aeroglaze 9958* thinner to control the application film thickness. The exact thinning percentage is dependent on the spray system used. Add the thinner while stirring the mixed primer. After the wash primer is thinned and uniformly mixed, use immediately. Working life of Aeroglaze 9947 wash primer is 8 hours. After 8 hours, discard any mixed primer. Even though the primer may still be liquid, it will no longer adhere to substrates.

#### Application

Aeroglaze 9947 is best applied by HVLP spray equipment. The optimum dry film thickness should be 6.4-12.7 micron (0.25-0.5 mil). Airless spray equipment can be used, provided a maximum of 12.7 micron (0.5 mil) dry film thickness is not exceeded. Excessively thick films of primer will fail cohesively. Aeroglaze 9947 wash primer must be applied in a single wet pass with a 50% overlap. Hold the gun at right angles to the surface, approximately 20.3-30.5 cm (8-12 in) away, and apply in even, parallel passes. Coverage rate is 8.6-14.3 m<sup>2</sup>/L (350-584 ft<sup>2</sup>/gal).

#### Drying/Curing

Allow primer to thoroughly dry before topcoating. All corners and recesses of primed part(s) must be completely dry or poor adhesion of the topcoat will result. Use explosion-proof fans on primed parts with detailed geometry to remove solvents and accelerate drying.

Depending on conditions, primer may dry in 2-3 hours at 18-24°C (65-75°F). High humidity conditions and low temperatures will slow drying. Aeroglaze 9947 wash primer completely dries to a dull, matte, transparent appearance. Once dry, primed surfaces can be topcoated with Aeroglaze or Chemglaze polyurethane coatings.

#### Clean-Up

Use Aeroglaze 9958 thinner to clean equipment. Thoroughly clean mix and spray equipment immediately after use.

## TECHNICAL CHARACTERISTICS

### Typical Properties\*

	9947A	9947B
Appearance	Red Liquid	Clear Liquid
Viscosity, cps @ 25°C (77°F) ASTM D 2196-66, Brookfield LVT	1000-5000, Spindle 2, 30 rpm	~10, Spindle 1, 60 rpm
Density ASTM D 1475-85	1.06-1.11 kg/L (8.85-9.25 lb/gal)	0.93-0.97 kg/L (7.80-8.10 lb/gal)
Solids Content by Weight, ASTM D 2369-87 modified	32-36%	1.64%
Flash Point (Seta), ASTM D 3278-82, Closed Cup	20°C (69°F)	20°C (69°F)
Volatile Organic Content (VOC) ASTM D 3960-87	691 g/L (5.77 lb/gal)	921 g/L (7.68 lb/gal)

### Typical Properties\* of Mixed Primer

Mix Ratio, Part A to Part B	by Volume 1:1, by Weight 100.0:88.8
Mixed Appearance	Red
Viscosity, cps @ 25°C (77°F) ASTM D 2196-66, Brookfield LVT	400, Spindle 2, 30 rpm
Density ASTM D 1475-85	1.02 kg/L (8.5 lb/gal)
Solids Content ASTM D 2369-87 modified	11% by volume, 22% by weight
Volatile Organic Content (VOC), ASTM D 3960-87	815 g/L (6.8 lb/gal)
Working Life	8 hr
Dry Film Density	1.76
Dry Film Coating Weight, 0.5 mil thickness	2.08 gm/ft <sup>2</sup>

\*Data is typical and not to be used for specification purposes

## PRECAUTIONS FOR USE AND STORAGE

Shelf life is one year for Aeroglaze 9947A and Aeroglaze 9947B from date of shipment when stored in a dry, well-ventilated area at temperatures under 27°C (80°F) in original, unopened containers. Do not store or use near heat, sparks or open flame.

Before using this or any SOCOMORE product, refer to the Safety Data Sheet (SDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Manufactured for SOCOMORE by: LORD Corporation, Saegertown, PA

**This technical data sheet replaces and cancels the previous one.**

The above details have been compiled to the best of our knowledge. They have, however, an indicative value only and we therefore make no warranties and assume no liability in connection with any use of this information, particularly if a third party's rights are affected by the use of our products. The above information has been compiled based upon tests carried out by SOCOMORE. All data is subject to change as Socomore deems appropriate. The data given is not intended to substitute for any testing you must conduct in order to determine the suitability of the product for your particular purposes. Please check your local legislation applicable to the use of this product. Should you need any further information please contact us.