POLYMERICA SYSTEM DATA

MasterShield ASU

Moisture Cured Aluminum Filled
Urethane Primer/Coating System

PRODUCT DESCRIPTION

MasterShield ASU is chemically superior. It is a single component atmospheric moisture cured high solids primer/coating system that has multiple end uses. It is formulated as an impervious primer/coating that will tenaciously bond to ferrous and non-ferrous metal surfaces to stop the oxidation and corrosion of the metal substrate.

Primer: MasterShield can be used as a primer for ferrous and non-ferrous metal prior to on placing a broad range of polymeric protective coating systems, including vinyl esters, polyesters, polyurethanes, polyaspartics, polyureas and epoxies. Multi-prime coats (two or more) are recommended to insure the primed surface is impervious, preventing oxygen, moisture and chemicals from coming in contact with the substrate.

Rust and Corrosion Inhibiting Coating: For best results apply MasterShield ASU as a primer to surfaces prepared to white metal standards per SSPC Surface Preparation Guideline. As an after-market coating it can be applied directly to rusted surfaces. Simply remove loose rust and scale mechanically, then apply MasterShield ASU directly over tightly adhered rusted surface in two or more coats.

PRODUCT FEATURES

- **Apply directly over rusted surfaces**
- **Seals and encapsulates rust**
- **Cures to an impervious barrier**
- **Use as a primer over metal surfaces for polymer systems**
- **As a coating it has excellent light and heat reflectivity**
- **Rapid cure and recoat**
- **Tenaciously bonds to all surfaces, including the applicator. Wear protective clothing.**

APPLICATION:

Prior to applying Vinyl Ester or other polymer system, prime the surface with 1 or 2 coats of ASU as required. Two coats are recommended.

- **The surface must be dry to the touch, not tacky, before applying the next coat.**
- **Allow ASU a minimum cure time of 4 hours at75^{0}F (24^{0}C) prior to the next application.**
- **Maximum recoat window is 24 hours at 75^{0}F (24^{0}C), it will be shorter if temperatures are elevated and longer at lower temperatures.**
- **Suggested recoat time is 18 hours.**
- **Reapply ASU if recoat window is missed.**
- **In arid environments with extremely low relative humidity, such as the Four Corners and other desert areas, test prior to use.**
- **Apply uniformly over surface taking care to avoid pin holes, voids and holidays.**
- **Failure to apply sufficient ASU may lead to inner-coat adhesion and unacceptable cure of the vinyl ester coating.**

APPLICATION THICKNESS:

- **For all single component urethanes the surface must be free from oils, dirt, grease and other contaminants.**
- **Surface must be free of moisture to avoid bubbling, pinholes and blistering.**
- **Recommended application is 225 to 250 sq ft per gallon or 7 to 6.5 mils WFT or 4.7 to 4.3 DFT. Always pre-mix single components prior to use.**
- **Avoid placing MasterShield ASU heavier than recommended.**
- **Heavier coats of single component urethanes have a tendency to bubble and pin hole during cure.**
- **Pin holes are unsightly and provide an avenue for oxygen, water and chemicals to reach the substrate.**

TYPICAL USE

- **Priming of "white blasted" steel to provide the superior rust and corrosion resistance**
- **Priming of rusted metal surfaces**
- **Priming for ferrous and non-ferrous metals prior to applying vinyl esters and other polymer coatings**
- **Primer and Coating of ferrous and non-ferrous metals**

PHYSICAL PROPERTIES

- **Gloss Finish**
- **Viscosity: 500 CPS**
- **Solids: 66.83% by volume**
- **Flash Point: 83 F**
- **Thinning: xylene**

CHEMICAL RESISTANCE

See Polymerica Chemical Resistance Guide

CLEANING & DISINFECTING

Cleaning, disinfecting agents, cleaning procedures and techniques can affect the gloss, color and surface integrity. The end-use should follow Polymeric Care and Maintenance procedures. As a precaution clean a small area to determine if housekeeping procedures affect the surface.

SAFETY

Material Safety Data Sheets are available from Polymerica and should be consulted prior to use of the product. These products are intended for use by professionals only. Keep away from children and those not trained in the use and potential hazards involved. Workers should wear protection, gloves, goggles and body covering clothing during mixing and application. Clean with soap and warm water. Always read and follow label, data sheet and MSDS instructions.

WARRANTY

POLYMERICA warrants its products to conform to its manufacturing standards. POLYMERICA will replace or refund the purchase price of non-conforming products at the seller's option; such remedy being exclusive of all others and sole remedy available to the buyer. Buyer hereby expressly waives claim to additional damages. Any claim under this warranty must be made in writing within 7 days of discovery of noncompliance and no later than one year from the date of delivery of product. No representative, distributor or applicator of POLYMERICA products is authorized to modify product data or warranty.

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