



Product Description

Bayblock Prime VBA is a two-component, high-performance, corrosion-resistant metal primer. It combines corrosion inhibiting pigments with Vinyl Butyral Acetate to etch and condition ferrous and non-ferrous metal surfaces. Bayblock Prime VBA creates a physical and chemical bond between the substrate and most of BaySystems elastomeric topcoats.

Bayblock Prime VBA is an excellent choice for use over sound ferrous or non-ferrous metal surfaces where sandblasting is not feasible. It is recommended as a prime coat for metal which is to be topcoated with Vabar 792 under immersion or non-immersion environments. Under specific conditions, it can also be used beneath BaySystems urethane and acrylic coatings systems.

Application and Handling

Bayblock Prime VBA is a two-component material available in quart cans (0.95 liters) and one-gallon cans (3.8 liters). Mix 1 volume of the "A" Component with 1 volume of Part "B" component. Thinning or reducing the mixture is not recommended. Material shall be thoroughly power mixed prior to application. Use an air-operated or other explosion-proof mixer, which as been grounded and bonded, with a blade capable of uniformly mixing the entire container. At higher temperatures, usable pot life is shortened.

Steel and fabrication defects, such as weld imperfections, delaminations, and slivers should be corrected prior to starting abrasive blasting operations. All

previous paints or coatings on the substrate must be completely removed, including paints or coatings which are tightly adhered to the surface. All burrs, jagged edges, undercuts, recesses and surface defects shall be ground smooth. Porous welds shall be ground down to pinhole free metal. Excessive rust-scale shall be removed by mechanical means prior to cleaning.

Steel surfaces must be blast cleaned to either Near-White (SP10) or White Metal (SP5) depending upon the conditions under which the topcoat will be subjected to on a specific project. Wet or water vapor sandblasting is not recommended.

Abrasive blast cleaning shall not be performed when the surface temperature of the steel is less than 5°F (3°C) above the dew point of the ambient air, when relative humidity exceeds 80%, or when there is a possibility that the blasted surface will become wet before the primer can be applied.

For applications over metal surfaces that cannot be blast cleaned or over existing surfaces that are to be spot primed, apply a test area to ensure proper adhesion. All oil, grease, weld flux and other surface contaminants shall be removed prior to cleaning by use of a solvent wash as defined in SSPC-SP1 Solvent Cleaning.

Surfaces that have not been blast cleaned shall be cleaned using Duraclean. Apply the diluted Duraclean to the metal surface under low pressure, allow to sit for 15 to 20 minutes, and rinse with high pressure water. Allow surfaces to dry thoroughly prior to Bayblock Prime VBA application. (continued)

Typical Physical Properties

Property	Value
Solids by Weight:	17%
Solids by Volume	9%
Recommended Application Rate:	200-250 s.f./gal. 0.5-0.7 dry mils
Recommended Service Temperature:	70-200°F
Number of Components:	Two
Color:	Grey/Black
Pot Life:	8 Hours @ 75°F 50% R.H.

Wet Physical Characteristics

Flash Point:	22°F "A" Component 55°F "B" Component
Shelf Life:	12 month if properly stored
Clean Up:	MEK
Thinner:	Not Recommended

Note: Adhesion should not be tested within one hour of application

Product Reactivity

Dry Time:	90 Minutes @ 8 mils
Tack Free Time:	Remains tack normal
Recoat:	24 hours

Bayblock™ Prime VBA

Application and Handling (continued)

The cleaned surface shall be primed by the end of the same work day, but in any event before any visible rusting occurs. If rusting occurs after cleaning, the surfaces shall be reblasted or recleaned before priming. If the steel surface is subjected to chemical contamination, priming of the cleaned surface must take place as soon as possible.

The required surface profiles may be measured for conformance using an instrument such as a Kean-Tator Surface Profile Comparitor.

Bayblock Prime VBA may be applied by brush, roller, conventional or airless spray. Airless spray is the preferred method. Any airless spray equipment capable of 1000 psi (6890 kPa) and 1/2 gallon per minute (1.9 l/min.) delivery can be used. A reversible self-cleaning spray tip with orifice size of .013" to .019" (.33 to .48 mm) and minimum 40 degree fan angle is recommended.

Before spraying, flush MEK solvent through the hoses and spray gun to prevent contamination.

Under no circumstances should Bayblock Prime VBA be applied to a film thickness greater than 1.0 dry mil (25.4 dry microns). Excess film thickness results in inferior adhesion and/or poor curing. Coverage rate will depend upon the surface profile. Bayblock Prime VBA should be applied at a coverage rate of 150 to 200 sq. ft. per gallon (3.7 to 4.9 m²/l). This coverage rate should result in .5 to .75 dry mil (12.7 to 19 dry microns). Surface profile and application conditions will affect coverage rates.

Bayblock Prime VBA should be topcoated on the same day. If topcoating cannot be achieved within 48 hours, consult BaySystems' Technical Service Department for recommendations.

General Safety, Toxicity, Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CLEAN UP: Use MEK

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be released if contaminated. Do not attempt to use contaminated materials.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact BaySystems for a copy of the Model Respiratory Protection Program developed by API.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Disclaimer

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

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