

# STEELZ™ UV

## Polyurethane Steel Top Coat



### PRODUCT DESCRIPTION

A two component, acrylic aliphatic isocyanate polyurethane coating with excellent gloss and color retention. STEELZ™ UV cures to a very tough, abrasive resistant film with exceptional exterior durability, chalk resistance, color stability, and long term gloss retention. STEELZ™ UV has a tile-like finish which is very tough but yet a flexible film. Ideal for use in Industrial, Commercial and Marine applications.

### PRODUCT FEATURES

1. High solids.
2. Low V.O.C.
3. Good chemical and stain resistance.
4. Excellent gloss and color retention.
5. Non-chalking and non-yellowing.
6. A tile-like finish.
7. Easy to clean.
8. Highly resistant to abrasion and impact.
9. Outstanding wearing properties.
10. High film build.

### TECHNICAL DATA

**COLORS:** Available in most standard industrial colors and Deep Base and Neutral Base

**GLOSS:** High Gloss

**<sup>1</sup>VOLUME SOLIDS:** 62% ± 2% (white)

**COVERAGE** (Theoretical): 992 sq. ft. @ 1.0 mil DFT

**RECOMMENDED FILM THICKNESS:** 2.0-5.0 dry mils per coat, 200-496 sq. ft. per gallon

**MIXING RATIO:** 4:1 by volume. Mix 4 parts Base (Part A) to 1 part Hardener (Part B)

**INDUCTION TIME:** None

**THINNING:** Spray - Up to 20% with SU-94  
Roll -Up to 10% with SU-93

**CLEAN UP:** SA-17 or S-74

**POT LIFE:** 4 - 6 hours @ 75°F

**RECOAT TIME:** 8 - 48 hours @ 75°F

**APPLICATION:** Conventional, airless spray, brush or roll

**APPLICATION TEMP.:** 50°F - 120°F

**DRY SERVICE TEMP.:** 300°F

**SHELF LIFE:** 1 year minimum

**PACKAGING:** 1 and 5 gallon units

**<sup>1</sup>V.O.C.:** 2.70 lbs/gallon or 323 GMS/Liter

<sup>1</sup>Values are listed for white, other colors may vary slightly

## **PRODUCT USES**

Ideal as a top coat for storage tanks, vessels, water towers, oil rigs, structural steel, bridges, equipment, pipe lines and racks, exterior of buildings, etc., in chemical processing plants, pulp and paper mills, sewage and waste water treatment facilities, fertilizer plants, petroleum refineries, electric generating stations, coal handling operations, food processing plants and marine installations to name a few.

## **SURFACE PREPARATION**

STEELZ™ UV is a top coat only and is not recommended to be used directly over unprimed surfaces. Apply over appropriate primers or intermediate coats. Surfaces must be free from all oil, grease, dirt, water, or other foreign matter. STEELZ™ UV is not recommended for immersion service.

### **1. Carbon Steel**

All surface contamination, such as dirt, dust, grease, oil and other deposits must be removed prior to abrasive blast cleaning. Solvent cleaning as outlined in Steel Structures Painting Council's Specification SSPC SPI should be used to remove all foreign matter. If previous service has left surface deposits of chemicals, they also must be removed by pressure washing and followed by a thorough water rinsing.

Remove all rust, mill scale, loose paint and any previous existing coatings by dry abrasive blasting all steel surfaces before applying the coating system.

Recommended primers for the STEELZ™ UV are Steelz™ Shield HV, Steelz™ Pro CR, and Steelz™ Guard MP. Follow the recommended recoat time per label instructions. In some cases an intermediate coat may need to be applied when a 3 coat system is necessary or desired.

### **2. Aluminum, Galvanized Steel and Non-Ferrous Metals**

Degrease and chemically clean surfaces in accordance with SSPC-SP1 Solvent Cleaning Specification. The surface should be sweep blasted and primed with Steelz™ Shield HV, or Steelz™ Guard MP. Recoat time is minimum 8 hours for Steelz™ Shield HV and Steelz™ Guard MP is 2-6 hours at 75° before applying STEELZ™ UV.

### **3. Zinc Rich Primer**

Sand blast to a SSPC-SP10 "near white" blast or SSPC-SP6 "commercial" blast. Apply Steelz™ Coat ZR at 2.5 to 3.5 mil DFT. Allow a minimum of 4-5 hours recoat time @ 75°F and 50% R.H before applying STEELZ™ UV. For best results, apply an intermediate coat of Steelz™ Shield HV.

### **4. Marginally Prepared Steel Surface**

Degrease and chemically clean surfaces in accordance to SSPC-SP1 Solvent Cleaning spec to remove all oils, grease, and other soluble contaminants. If steel is chemically contaminated (e.g., acid, caustic, or salts), high pressure water cleaning at a minimum of 5,000 psi is recommended to remove chemicals. The pH of steel should be tested to ensure that surface of steel is between 7.0-8.5 pH.

After the above process has been completed, power tool cleaning is to be done. Power tool clean to remove all mill scale, loose rust, loose paint and other detrimental foreign matter. Apply two coats Steelz™ Guard MP at 2-3 mils DFT. Minimum recoat time for Steelz™ Guard MP is two (2) hours, maximum recoat time is six (6) hours at 75°F and 50% relative humidity. Steelz™ Shield HV may also be used as a primer under the STEELZ™ UV on marginally prepared surfaces.

### **5. Concrete/Masonry Surfaces**

New concrete must be cured at least a minimum of twenty-eight (28) days before applying a coating. All laitance, efflorescence, chemical contaminants, grease, oil, and other foreign material must be removed. The

prepared surface must be clean, dry, and structurally sound. Accepted methods of surface preparation are dry abrasive blast, wet abrasive blast, vacuum shot blast, high pressure water blast, scarifying, scabbling and acid etch/water rinse.

Voids, cavities, spalled areas, and other structural defects should be trowel-grouted smooth with Joint Guard™ CJ Control Joint filler. Rub smooth with a hand grinding stone any burrs or high protruding aggregate left uneven by troweling.

Consult Garon regarding the testing of the concrete for proper pH, vapor barrier testing and surface porosity.

STEELZ™ UV is not designed for forklift and other heavy trafficked areas.

## 6. **Block Walls**

Block walls should be free of salts, soap film, oil, grease, dirt, dust and other contaminants and foreign material that will interfere with adhesion of coating system. The block must be dry and free of moisture.

Apply Garon's Tigerwall™ at a rate of 125 square feet per gallon. Use a 1/4" roller cover. Apply Tigerwall™ in multiple directions for uniform filling of block. Block walls should be evenly and uniformly filled. Allow Tigerwall™ to cure for 16-24 hours before applying an Epoxy Intermediate Coat, e.g., Steelz™ Shield HV.

### **MIXING INSTRUCTIONS**

Stir each component to a uniform consistency, using a slow speed explosion proof variable speed drill with a Jiffy mixer. Make sure any pigment settled to the bottom is incorporated. Do not vary proportions. STEELZ™ UV is prepared by mixing 4 parts Base (Part A) to 1 part Hardener (Part B) with the power mixer. STEELZ™ UV may be thinned up to 20% with SU-94 for spray applications.

#### **V.O.C.**

<b><u>Unthinned</u></b>	<b><u>Thinned 5%</u></b>	<b><u>Thinned 10%</u></b>	<b><u>Thinned 20%</u></b>
2.7 lbs/gal (323 gms/liter)	2.92lbs/gal (350 gms/liter)	3.12 lbs/gal (374 gms/liter)	3.48 lbs/gal (417 gms/liter)

### **APPLICATION PROCEDURE**

Best method of application is conventional or airless spray use up to 10% Thinner. Flush equipment thoroughly with MEK solvent before using and use a moisture trap on the air supply.

<b><u>Airless Spray</u></b>	<b><u>Graco</u></b>	<b><u>Conventional Spray</u></b>	<b><u>DeVilbiss</u></b>
Gun	Silver Plus	Gun	MBC or JGA
Pump	Xtreme 33:1	Fluid Tip	E or F
Tip Range	.013 - .017	Air Cap	704 or 777
Hose	3/8 inch I.D	Atomizing Pressure	50-60 psi
Pressure	2000-2500 psi	Fluid Pressure	15-25 psi
Filter Size	60 Mesh	Hose	3/8 inch ID

When spraying, use a 50% overlapping crosshatch pattern to minimize the occurrence of pinholes. Do not apply to surfaces below 50°F or above 120°F. Do not apply over dew or frost. The surface temperature should be at least 5°F above the dew point.

**Roller** – Thin up to 10% by volume with SU-93 Reducer, depending on temperature. Use a 1/4" – 3/8" short nap phenolic core, shed resistant roller cover. Roll in the same direction always keeping a wet edge. Do not over roll product.

**Brush** – Use pure bristle brush.

### **CURE TIME**

<b><u>TEMPERATURE</u></b>	<b><u>TACK FREE</u></b>	<b><u>MINIMUM RECOAT</u></b>	<b><u>MAXIMUM RECOAT</u></b>
90°F	1 hour	6 hours	1 Day
75°F	2 hours	8 hours	2 Days
50°F	4 - 6 hours	24 hours	4 Days

Times may be longer for thickness above 2.5 dry mils. For safety and proper product curing, good ventilation is necessary when painting indoors or in confined areas. Be sure the batch numbers are all the same to provide uniform color. Heaters that emit carbon dioxide and carbon monoxide can cause the coating to yellow.

### **DANGER**

STEELZ™ UV is flammable. Keep away from all sources of ignition during mixing, application and cure. Contains Aliphatic Polyisocyanates, N-Butyl Acetate, Xylene, MEK, Ester Solvent and PM Acetate. The mixtures of BASE (Part A) with HARDENER (Part B) can cause eye and skin burns as well as allergic reactions. The use of goggles, fresh air masks or NIOSH approved respirators, protective skin cream and protective clothing is a recommended standard practice when spraying.

This product is sold without warranty as to performance expressed or implied. Users are urged to make their own tests to determine the suitability for their particular conditions.

**SEE SAFETY DATA SHEET FOR FULL SAFETY PRECAUTIONS  
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY  
KEEP AWAY FROM CHILDREN. NOT FOR RESIDENTIAL USE**

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