

# PRODUCT

## INFORMATION



## Techgard® Maintenance Gloss Enamel

### Colors:

**S4500-White**                      **S4510-Black**  
**S4520-Safety Red**              **S4540-Safety Yellow**  
**S4507-Safety Orange**

### Tint Bases:

**S4591-Base 1**                      **S4592-Base 2**  
**S4593-Base 3**

### Description:

Techgard® Maintenance Gloss Enamel is a high gloss alkyd enamel designed to provide a durable protective finish on properly prepared steel and aluminum, as well as, a decorative finish for wood, masonry, and light duty concrete floors. Techgard® S4500 series is tough enough for application in industrial and high humidity environments, yet user friendly enough for almost any interior or exterior application requiring a high gloss decorative finish.

Techgard® Maintenance Gloss Enamel is ideal for painting machinery, hand rails, even support steel on large capital structures. When applied over a recommended primer, Techgard® S4500 series provides corrosion protection in some of the most demanding of industrial environments.

### USES:

|                |                  |                |
|----------------|------------------|----------------|
| Marine vessels | Hand trucks      | Hoists         |
| Benches        | Structural steel | Lift trucks    |
| Handrails      | Machinery        | Motors         |
| Elevators      | Piping           | Racks          |
| Containers     | Mills            | Tank exteriors |
| Shop equipment | Concrete floors  | Light poles    |

**SIZES:** Available in 1 gallon and 5 gallon containers depending on colors.

### SURFACE PREPARATION:

Surface must be free of dirt, oil, moisture, grease, and other contaminants. Ferrous Metal - should be primed for better protection. Concrete - acid etch or abrasive blast prior to painting.

MIXING: Mix well before use.

### TECHNICAL DATA

**Vehicle:** Alkyd  
**Components:** One (colors: white, black, safety red, yellow, orange, blue, and 3 tinting bases)  
**Sheen:** High Gloss  
**Gloss:** 70-80 units @60°  
**Flash Point:** 102°F  
**% Solids:** By Volume: 47.5%  
**VOC Level:** 3.5 lbs./gal. (420 gm/l) max.  
**Rec. Film Thickness:** 4.0 - 5.0 mils wet film  
**Rec. Film Thickness:** 1.5 - 2.0 mils dry film  
**Spreading Rate:** approx. 400-500 sq. ft./gal.  
**Shelf Life:** 18 months; Orange 12 months

**Application:** Apply by airless spray, conventional spray, brush, or roller.

**Drying Time @ 77°F (25°C):** Set to touch 2 to 3 hrs. Tack free: 6 hrs. Dry to recoat min. 24 hrs., max. 3 days. Addition of colorant will slow dry times.

**Primers:** Steeltech Shopcoat (S4501, S3102) or Steeltech Rust Inhibitive Primer (S4551, S4556)

**Thinning:** Not recommended  
**Cleanup:** Mineral Spirits or Xylene

**Limitations:** NOT INTENDED FOR IMMERSION SERVICE. Do not apply when surface temperature is less than 5°F (3°C) above the dew point. Service life shortened when applied to concrete. Do not apply when surface temperature is less than 50°F. Concrete must be cured for 28 days prior to painting.

**Heat Resistance:** Up to 250°F dry heat (121°C)

**FOR INDUSTRIAL USE ONLY**

**Technical Information Line:**  
1-800-BUY-PRAT (1-800-289-7728)

**Website Address:**  
[www.prattandlambert.com](http://www.prattandlambert.com)

**5.04 IM**

## APPLICATION:

- Airless:** .015 orifice tip  
2500 psi
- Conventional:** 50 - 55 psi atomization pressure  
20 - 25 psi fluid pressure  
Aircap; 63PB  
Fluid Cap; 66
- Brush/Roller:** Do Not Thin

## PHYSICAL TEST DATA\*

**Substrate:** Steel  
**Surface Preparation:** SSPC-SP2  
**1 ct. Techgard Gloss @ 1.5 mils DFT**

- Salt Fog (ASTM B-117)  
Result: Passes 500 hours
- Pencil Hardness (ASTM D3363)  
Result: Passes 2B
- Chemical Resistance: (24 hr. Spot Test)  
50% Sodium Hydroxide... Good  
Motor Oil ..... Excellent  
Water ..... Very Good

## RECOMMENDED SYSTEMS

### FERROUS METAL:

(mild/indoor environment)

- Techgard® S4500 Maintenance Gloss Enamel  
at 1.5 - 2.0 mils DFT/coat

### FERROUS METAL:

(all other environments)

- 1 coat Steeltech® Alkyd Shopcoat Primer  
(S4501 or S3102) at 2.0 mils DFT

or

- 1 coat Steeltech® Rust Inhibitive Metal  
Primer (S4551 or S4556) at 2.0 mils  
DFT

(and)

- 1 or 2 coats Techgard® S4500 series at 1.5  
- 2.0 mils DFT/coat

### ALUMINUM:

- 1 coat Steeltech® Universal Acrylic HP  
Primer at 2.0 - 4.0 mils DFT

(and)

- 1 or 2 coats Techgard® S4500 series  
Maintenance Gloss Enamel at 1.5 - 2.0  
mils DFT/coat

### MASONRY/CONCRETE BLOCK:

- 1 coat Enducryl® Heavy Duty Block  
Filler, Z8465 at recommended thickness

(and)

- 1 or 2 coats Techgard® S4500 series  
Maintenance Gloss Enamel at 1.5 - 2.0  
mils DFT/coat

### CONCRETE FLOORS: (for aesthetics only)

- 2 or 3 coats Techgard S4500 series at 1.5  
- 2.0 mils DFT/coat