



GasGuard™ 1500

Extreme Polymer Concrete System

GG-1501	Primer
GG-1502	Polymer Liner/Concrete
GG-1503	Surface Color
GG-1509	Hardener

Product Description

GasGuard 1500 is an extremely heavy-duty polymer concrete and lining system used in the highest corrosive concrete and steel environments where corrosion protection, strength and fast return-to-service times are essential. GasGuard 1500 uses the latest custom design in Vinyl Ester thermosetting resins to meet the demands of highly corrosive applications.

The GasGuard 1500 system is the result of over 30 years of R&D with protective coatings in corrosive environments and was designed to be a far superior lining solution to conventional surface coatings notorious for peeling and flaking. Using an ultra-low viscosity primer, GasGuard 1500 penetrates deep into porous substrates creating an extremely strong mechanical bond in addition to its chemical bonding properties.

With the addition of proprietary fillers and aggregates GasGuard 1500 creates an extremely heavy-duty polymer concrete with strength, adhesion, and corrosion resistance properties that far exceed typical concrete mixes.

Recommended Uses

GasGuard 1500 is used as an extreme protective lining system over prepared concrete and steel surfaces in highly corrosive industrial and wastewater exposures. GasGuard 1500 can also be used as a replacement for traditional concrete in patching, structural repairs, and form & pour applications.

- Wastewater Treatment Plants
- Sugar and Citrus Plants
- Lift stations
- Manholes
- Inverts/filets
- Secondary containment areas
- Industrial and wastewater tanks
- Highly corrosive environments
- Pedestals/mounting pads
- Concrete repairs

Product Characteristics

Finish:	Semi-gloss
Color:	Orange (custom colors upon request)
Volume Solids:	100%
Dry mils:	135 – no maximum

Typical Properties

Primer Viscosity @ 77°F	250-350 cPs	Brookfield LV3
Flexural Strength	22,015 psi	ASTM D790
Flexural Modulus	5.1 x 10⁵ psi	ASTM D790
Tensile Strength	22,022 psi	ASTM D638
Tensile Modulus	4.6 x 10⁵ psi	ASTM D638
Tensile Elongation	6.2%	ASTM D638
Barcol Hardness	39	ASTM D2583
Heat Distortion	243° F	ASTM D648

Drying Schedule 100grams @ 77° F

Gel time:	24-28 minutes
Gel to peak:	12-25 minutes
Recoat:	1-hour minimum
Return to service:	1-2 hours
Full cure:	6 hours

Surface Preparation

Abrasive blasting is recommended for surface prep. Surface must be clean, dry and in sound condition before applying. Remove all oil, dust, grease, dirt and loose material to provide adequate adhesion.

Iron & Steel minimum surface preparation:

**Atmospheric: SSPC-SP6/NACE 3
Immersion: SSPC-SP10/NACE 2**

Concrete & Masonry minimum surface preparation:

Atmospheric/Immersion: SSPC-SP13/NACE 6 (new concrete should be 28 days old or pH tested for full cure prior to application)

Application Guidelines

For GasGuard Certified Applicators only, see www.GasGuardLinings.com for current list of applicators.

Temperature:	38°F to 150°F
Cleanup:	Acetone
Equipment:	Casted, poured, troweled, sprayed
Minimum thickness:	135 mils
Maximum thickness	4-inch lifts, no maximum

Corrosion Data

See GasGuard 1500 Corrosion Results Guide for specific chemical resistance data.

Safety Information

See Resin SDS sheet before use.

Warranty Information

When installed by a Certified Applicator, GasGuard 1500 is backed by a 10 – Year Material Warranty

Florida Approved Applicator:

