

Product Description

GG-1001

GasGuard 1000 is a complete polymer concrete and lining system used in highly corrosive concrete and steel environments where corrosion protection, strength and fast return-to-service times are essential. GasGuard 1000 uses the latest custom design in polymorphic isophthalic thermosetting resins to meet the demands of highly corrosive applications.

The GasGuard 1000 system is the result of over 25 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 1000 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 1000 creates a polymer concrete with strength, adhesion, and corrosion resistance properties that far exceed typical concrete mixes.

Recommended Uses

GasGuard 1000 is used as a protective lining system over prepared concrete and steel surfaces in industrial and wastewater exposures. GasGuard 1000 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 0
- Secondary containment areas
- **Industrial and wastewater tanks**
- **Highly corrosive environments**
- Pedestals/mounting pads
- **Concrete repairs**

Product Characteristics

Finish: Semi-gloss

request)

Yellow (custom colors upon

Volume Solids: 100%

Color:

Dry mils: 135 - no maximum

Typical Properties

Primer Viscosity @ 77°F	300-400 cPs	Brookfield LV3
Compressive Strength	7,430 psi	ASTM C31, C39
Flexural Strength	21,650 psi	ASTM D790
Flexural Modulus	5.4 x 10 ⁵ psi	ASTM D790
Tensile Strength	11,000 psi	ASTM D638
Tensile Modulus	5.6 x 10 ⁵ psi	ASTM D638
Tensile Elongation	2.4%	ASTM D638
Barcol Hardness	42	ASTM D2583
Heat Distortion	214° F	ASTM D648

Drying Schedule 100grams @ 77° F

Gel time: 14-18 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 (wet or dry) 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)

Corrosion Data

See GasGuard 1000 Corrosion Results Guide for specific chemical resistance data.

Safety Information

See Corrosion ISO Resin SDS sheet before use.

Warranty Information

When installed by a Certified Applicator, GasGuard 1000 is backed by a 10 – Year Material Warranty

Application Guidelines

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

Temperature: 0°F to 150°F
Cleanup: Acetone

Equipment: Casted, poured, troweled,

sprayed, brushed or rolled

Primer: 5-10 mils

Polymer liner: 1/8 – 2 inches

Polymer concrete: 2 inches and up (no max)

Surface color: 5-10 mils

Florida Approved Applicator:



Revised: July 2023