

# RG-2400<sup>®</sup> ET



*RG-2400<sup>®</sup> ET* is a surface conversion compound utilizing mineralization technology, or the "science of Minetics"; this compound replaces the corrosion process with a mineral formation on and into the metal creating a mineral barrier 50-200 angstroms deep into the metal surface and as time passes, the mineral layer on top of the metal increases in thickness.

*RG-2400<sup>®</sup>* products are not "*new*" technology, it is new to the insulation industry and a breakthrough for corrosion control and prevention on piping systems, tanks and vessels *under* insulation. *RG-2400<sup>®</sup> ET* is an *ELEVATED TEMPERATURE non-drying* gel compound glove for pipes, fittings, valves, tanks and vessels. **This version of RG is designed to be used on in service hot surfaces up to 350° F.** Most frequently used on dual temperature cyclical lines.

*RG-2400<sup>®</sup> ET* prevents corrosion from occurring, and it also stops existing corrosion from advancing on existing systems, it requires minimal (wire brush off the scale) preparation.

Installation thicknesses of 20-30 MILS allow the unique formulation to heal any subsequent breach (mechanical damage) of the mineral barrier, and the *RG-2400<sup>®</sup> ET* formula is *so unique*, that even if the vapor barrier is breached allowing moisture into the system, the water is chemically altered into a solution that it CANNOT corrode the metal even if it contacts it directly; the moisture can stay in the system without corroding the pipe or vessel.

The insulation contractor applies *RG-2400<sup>®</sup> ET* on the pipe using PVC chemical gloves. The opacity and color of the product (blue) allows for easy site inspection of an installation—without a wet film thickness gauge. When it's BLUE, you're through!

*RG-2400<sup>®</sup> ET* is also environmentally benign, and will **NOT** harm the environment. *RG-2400<sup>®</sup> Cleaner* is available from Polyguard; this cleaner is specifically formulated to clean tools, equipment, and hands without harmful chemicals.

## Technical Information

USES:	Piping systems, valves, tanks, and vessels
PROTECTION:	Corrosion test - 1000 hours in ASTM B117, thickness .025" Accelerated Weathering – ASTM G-23, pass, no corrosion
TEMPERATURE:	Up to 350°F sustained, 380°F spikes (below freezing has no effect)
APPEARANCE:	Creamy, very tacky, gel feel
PROPERTIES:	Viscosity – Brookfield; 250,000-300,000 cps V.O.C. – EPA Method; NONE Specific Gravity – Gravimetric; 0.95-1.05
SURFACE PREP:	Rusted surfaces require removal of loose scale
APPLICATION:	Spray, glove, brush applied to tanks, vessels, and appurtenances.
COVERAGE:	Spray grade bore coat coverage is approximately 80-100 SqFt per gallon
CLEAN UP:	Material can be removed from tools using a Polyguard <i>RG-2400<sup>®</sup> Cleaner</i>
SAFETY:	Protective gloves and eye protection, avoid prolonged contact with skin Slight paint-like and mild chemical odor - read MSDS prior to use
SHELF LIFE:	In container; greater than two years, Air exposed on insulation; greater than one year
ENVIRONMENTAL:	No toxicity was observed during testing; Formulated from non-toxic materials with environmental stability



# Polyguard

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**RG-2400® ET is designed to be installed on hot metal (above 80°F) it is difficult to spread on a cold surface due to it's thicker viscosity. For cold pipe application, use RG-2400 LT**

### Rusted Metal Surface Preparation

- Water jet or wire brush, then cleaning the surface to remove all loose scale, grease and dirt, if it exists on the surface
- Application is not adversely effected by *slightly* damp surface conditions
- Brush or glove apply to surface, assuring coverage on pipes, crevice areas, threaded parts, or other components

### New Metal Surface Preparation

- Installation on metal surface without a coating on it is best - even a mill varnish is undesirable
- Unvarnished pipe may have a blush of red rust; don't worry about it! If there is pitting or scale, wire brush them off.
- Brush or glove apply to surface, assuring coverage on pipes, crevice areas, threaded parts, or other components

**TO SPEED INSTALLATION, HAVE YOUR FABRICATOR CUT YOUR INSULATION BORE 1/8" LARGER THAN STANDARD**

### Wet Surfaces

- All surfaces must be wiped to be as dry as possible prior to application of *RG-2400® ET*
- Water displacement characteristics allow for application of product to damp surfaces, but not easily! A dry surface is best
- DO NOT apply to surface where rainy conditions are present
- Damp *rusted* surfaces should be cleaned with water soluble solvent (alcohol or glycol) before application
- DO NOT apply to wet and soaked rusted surfaces

### Cold and Dry Surfaces

- Material can be applied to dry non-rusted surfaces as low as -30°, heavy duty gloves are required due to viscosity
- Surface must be clean and free of oils or frost

### Hot Surfaces

- Pipe surface temperature should not exceed 170° F, check with the plant safety team before installing on any hot surface above OSHA personnel protection standards

**DO NOT apply cut material (hand or spray) to surfaces above 150° F – avoid danger of solvent flash fire!**

### Safety

- There are no known hazards associated with the applications of any *RG* product
- Chemical hygiene classified as an irritant
- Hand and eye protection required – protective gloves, safety glasses, goggles for spray application
- A respirator should be used for spray application due to thinning solvents used

### Clean-up and Disposal

- Recommended clean-up is Polyguard *RG-2400® Cleaner* then with dishwashing liquid and water
- Disposal should be as a grease/oil type material
- Use the MSDS and check with you local and state officials for proper disposal

### Spraying RG-2400

- Documentation for thinning any *RG* product are on file with Polyguard, call us for your specific needs

**RG FAMILY OF PRODUCTS ARE PROTECTED BY NUMEROUS U.S. AND INTERNATIONAL PATENTS**