



RG-2400® ET DATA & INSTALLATION



RG-2400 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 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 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 hot surfaces with service temperatures up to 350° F.** Most frequently used on dual temperature cyclical lines.

RG-2400® 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 ET** formula is **so unique**, that even if the vapor barrier is breached allowing moisture into the system, the **RG-2400 ET** will buffer the moisture to an elevated pH.

The insulation contractor applies **RG-2400 ET** on the pipe using PVC chemical gloves. The opacity and color of the product (blue) allows for easy site inspection of an installation. When it's BLUE, you're through!

RG-2400 ET is also environmentally benign, and will **NOT** harm the environment. **RG-2400 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 - 500 hours in ASTM B117, thickness .025"
TEMPERATURE:	Up to 350°F sustained, 380°F spikes (below freezing has no effect)
APPEARANCE:	Creamy, tacky, gel feel
PROPERTIES:	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 64-80 Sq Ft per gallon
CLEAN UP:	Material can be removed from tools using a Polyguard RG-2400® Cleaner
SAFETY:	Protective gloves and eye protection, avoid prolonged contact with skin
	Slight paint-like and mild chemical odor - read SDS 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.

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This information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.

**RG-2400® ET is designed to be installed on hot or cold surfaces.
It is difficult to spread on cold surfaces due to its thicker viscosity.**

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

Insulation Compatibility

- **RG** gel products are compatible with most insulation types. Elastomeric Foam insulations are not recommended unless they are in a half shell configuration (not a single split seam). Calcium Silicate or Perlite is not acceptable if the gel is not protected by a non-wicking membrane suitable for the temperatures it would be exposed to. **Polyguard** has tested specific brands of insulations for wicking properties. Call **Polyguard** if you have any questions concerning the insulation you are specifying, if we have not tested your selected brand, we welcome you to submit it for testing.

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.

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 SDS and check with you local and state officials for proper disposal

Spraying RG-2400 ET

- Documentation for spraying **RG-2400 ET** are on file with **Polyguard**, call us for your specific needs.

RG-2400 ET is not designed to be used on aluminum or bronze substrates.

RG-2400 ET is not formulated to stop MIC corrosion.

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