



RG-2400® LT DATA & INSTALLATION



RG-2400 LT 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 substrate increases in thickness.

RG-2400 LT is 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. It is a non-drying compound easily brush/spray applied to pipes, fittings, valves, tanks and vessels. It's non-skinning and non-sag properties make it a permanent solution.



RG-2400® LT prevents corrosion from occurring, and it also stops existing corrosion from advancing on existing systems, it requires minimal (wire brush off the scale) preparation. In addition, **RG-2400 LT** prevents stainless steel and copper stress crack corrosion under insulation.

Installation thicknesses of 25-30 MILS allow the unique formulation to heal any subsequent breach (mechanical damage) of the mineral barrier, and the **RG-2400 LT** formula is so unique, that even if the vapor barrier is breached allowing moisture into the system, the **RG-2400 LT** will buffer the moisture to an elevated pH.

The insulation contractor applies **RG-2400 LT** 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 LT is also "NON-TOXIC", and will NOT harm the environment. **RG-2400® Cleaner** is also available from **Polyguard**; this cleaner is specifically formulated to clean tools, equipment, and hands without harmful chemicals.

Technical Information

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| 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 250°F sustained (below freezing has no effect) |
| APPEARANCE: | Creamy, tacky, gel feel |
| PROPERTIES: | V.O.C. – EPA Method; NONE Specific Gravity – Gravimetric; 0.98-1.08 |
| 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 SqFt 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.

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.

It is not *Polyguard's* recommendation, but some contractors have found that increasing the bore of the insulation by 1/8" facilitates the installation process, the difficulty of over sizing the insulation for an entire job is not feasible or necessary.

Wet Surfaces

- All surfaces should be wiped to be as dry as possible prior to application of **RG-2400**.
- 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 where water is present – even if the surface has been cleaned, use of an omni directional fabric is required on wet surfaces.

Cold and Dry Surfaces

- Material can be applied to dry non-rusted surfaces as low as -30°.
- Surface must be clean and free of oils or frost.

Cold and Wet Surfaces

- Damp surfaces must be above freezing (32° F).
- Cannot be applied on wet condensing surfaces, some method to dry the pipe must be used (towel, alcohol, glycol).
- It is possible to apply material to the bore of the insulation (very thickly), dry that 3' section of pipe and install the insulation on the pipe IMMEDIATELY. Call *Polyguard* before attempting this.

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, goggles for spray application.
- A respirator should be used for spray application.

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 LT*

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

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

***RG-2400 LT* is not formulated to stop MIC corrosion.**

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