polyguard MECHANICAL

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

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 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

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

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

Proud Member of NIA National Insulation Association®

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 MSDS 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