

RG-2400® AK



RG-2400® AK 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. It is a *non-drying* compound easily brush/spray applied to pipes, fittings, valves, tanks and vessels. This version of *RG* is designed to be used on in service hot surfaces

RG-2400® AK 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® AK* prevents stainless steel and copper stress crack corrosion under insulation.

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® AK* 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® AK* 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® AK is also "NON-TOXIC", and will *NOT* harm the environment. *RG-2400® AK 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, very tacky, gel feel
PROPERTIES:	Viscosity – Brookfield; 250,000-300,000 cps V.O.C. – EPA Method; NONE Specific Gravity – Gravimetric; 0.90-1.05
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® Cleaner</i>
SAFETY:	Protective gloves and eye protection, avoid prolonged contact with skin Slight pain-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



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RG-2400® AK is designed to be installed on hot pipes (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 should be wiped to be as dry as possible prior to application of *RG-2400® AK*
- 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
- **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