

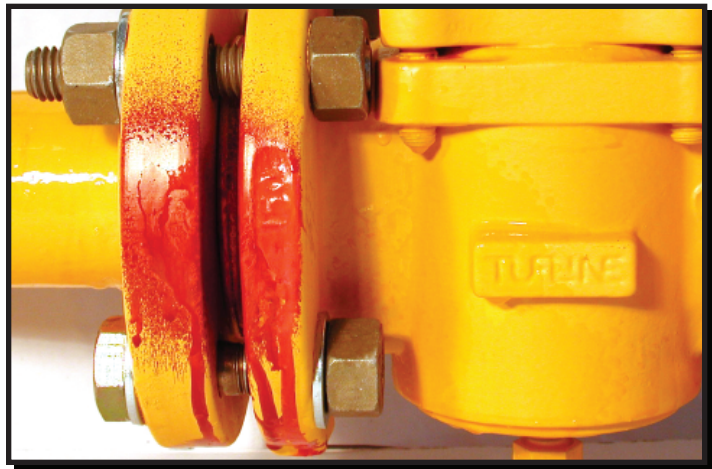
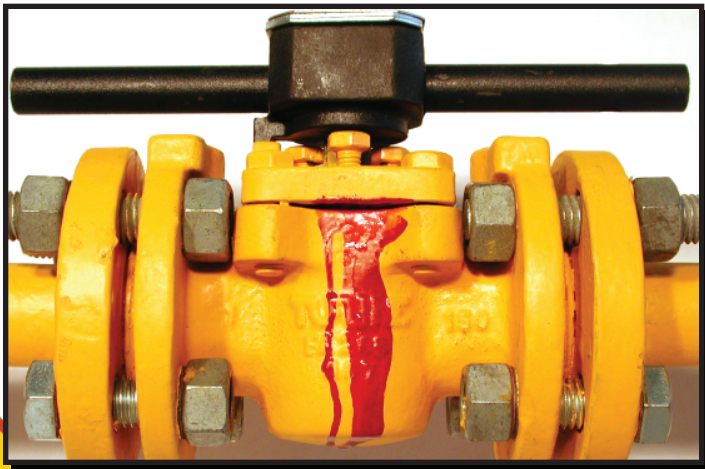
Immediate Visual Detection for Leaking Acids & Acid Vapors

On Guard™

PATENTED • BRUSH-ON FORMULA • VOC COMPLIANT

ACID ALERT™ SYSTEM

Golden **YELLOW** Paint Turns **RED** at pH 3 and Below



Protects employees, expensive equipment, and the environment

Visually detects leaks before the situation becomes catastrophic

Enhances on-site Safety and Hazmat programs

Helps isolate the origin of the leak

Reverses from red to yellow when leak is
repaired and acid is rinsed with tap water
or an alkaline solution



PRODUCT SOLUTIONS™

110, 3160 118 Avenue SE
Calgary, AB T2Z 3X1

TOLL FREE: 888 770 8899

MAIN: 403 295 3114

EMAIL: ngcsales@ngc-ps.com

WEB: ngc-ps.com

The logo for On Guard, featuring the words "On" and "Guard" in a stylized, bold font. "On" is in a smaller font above "Guard". The letters are white with a thick black outline and a yellow-to-orange gradient fill. The logo is set against a black oval background.

ACID ALERT™ SYSTEM

Golden **YELLOW** Paint Turns **RED** at pH 3 and Below

Use On Guard™ On:

- Flanges
- Valves
- Pipes and Tanks
- Weld Sites
- Sample Ports
- Secondary Containment Facilities
- Laboratory Surfaces
- Weep Holes
- Anywhere Accidental Leaks/Spills May Occur

On Guard™ Detects the Presence of:

- Citric Acid
- Hydrochloric Acid & Vapor
 - Chlorine
- Hydrofluoric Acid & Vapor
- Oxalic Acid
- Nitric Acid and NOx Vapor
- Trifluoroacetic Acid
- Sulfuric Acid
- Phosphoric Acid
- Glacial Acetic Acid & Vapor
- Perchloric Acid
- Other Acids and Acid Gases

Questions & Answers • The Basic Facts

What is ON GUARD™, and how does it work?

ON GUARD™ is an Acrylic Modified Alkyd Enamel acid indicating paint that is formulated for industrial application. ON GUARD™ immediately turns from GOLDEN YELLOW to BRILLIANT RED almost instantaneously in the presence of acids and acid vapors pH3 or below.

What is different and unique about ON GUARD™?

Patented ON GUARD™ REVERSES its color and turns back to GOLDEN YELLOW when the acid leak has been repaired and the painted surface is flushed with water or a mild alkaline solution. It verifies the repair and is ready to detect another leak.

Does ON GUARD™ have to be stripped off and reapplied after each acid exposure?

NO! Simply flush with tap water or a mild alkaline solution until the golden yellow color returns and ON GUARD™ is ready to reveal the next leak incident.

How is ON GUARD™ applied?

ON GUARD™ is designed as a brush-on formula. Apply ON GUARD™ as you would any other quality exterior paint product to 4mil dry thickness, which equates to 2-3 brush coats, using a quality brush or roller. Spraying is an option, allow adequate dry time.

Does a primer coat need to be applied?

It is strongly recommended using a quality grade primer when applied over raw metal. The surfaces need to be clean, dry, oil and rust free. We now offer a quality primer and strongly recommend it's use.

Can ON GUARD™ be applied over existing paint?

ON GUARD™ can be applied over existing paint as long as surfaces are clean, dry, oil and rust free.

Once applied, how long does ON GUARD™ last?

ON GUARD™ should last a minimum of two years "outside" or better than two and one half years if used "inside". Under exceptionally harsh conditions, such as temperatures above 200°F, visual checks should be made at 6-12 months. If ON GUARD™ begins turning light brown, repainting will be necessary. The shelf life is one year in the factory-sealed can at ambient temperature.

Who is using ON GUARD™ and where is it used?

Many Alkylation Refineries and Chlorine Facilities in the U.S. and around the world are now using ON GUARD™. Processors and transporters of acids are using ON GUARD™. Those responsible for EMPLOYEE SAFETY, ENVIRONMENTAL PROTECTION and PRODUCT INTEGRITY are using ON GUARD™.

Is ON GUARD™ helpful if there is an acid sensing system in the area?

Yes! If a sensor is triggered, check the area for a revealing "RED" leak site. Saves time, speeds repair and improves EMPLOYEE SAFETY by identifying the leak from a distance. ON GUARD™ may actually reveal a leak before electronic "sniffers" when there is a very low volume leak.

The logo for RAMCO, featuring the word "RAMCO" in a bold, italicized, sans-serif font. The letters are white with a thick black outline. The logo is set against a red rectangular background.

RAMCO® Manufacturing Co., Inc.

365 Carnegie Avenue
Kenilworth, NJ 07033

TEL: (908) 245-4500 • FAX: (908) 245-3142

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Immediate Visual Detection for Leaking Bases/Caustics

On Guard™

PATENTED • BRUSH-ON FORMULA • LATEX • LOW VOC

BASE ALERT™ SYSTEM

Bright WHITE Paint Turns Brilliant BLUE at pH 10 and Above



Protects employees, expensive equipment, and the environment

Visually detects leaks before the situation becomes catastrophic

Reverses from blue to white when leak is repaired and
base is rinsed with tap water

Enhances on-site Safety and Hazmat programs

Helps isolate the origin of the leak

NGC
PRODUCT SOLUTIONS™

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The logo for On Guard, featuring the words "On Guard" in a stylized, bold, blue font with a white outline, set against a dark blue oval background.

BASE ALERT™ SYSTEM

Bright WHITE Paint Turns Brilliant BLUE at pH 10 and Above

Use On Guard™ Base Detecting Paint On:

- Flanges
- Valves
- Pipes and Tanks
- Sample Ports
- Unloading Sites
- Laboratory Surfaces
- Seams and Weld Sites
- Storage Facilities
- Pumps
- Anywhere Accidental Leaks/Spills May Occur

On Guard™ Base Detecting Paint Detects the Presence of:

- Sodium Hydroxide
- Potassium Hydroxide
- Calcium Hydroxide
- Lithium Hydroxide
- Ammonium Hydroxide
- Rubidium Hydroxide
- Cesium Hydroxide
- Sodium Metasilicate
- Trisodium Phosphate
- Strontium Hydroxide
- Barium Hydroxide
- Other Bases pH 10 & Above

Questions & Answers • The Basic Facts

What is ON GUARD™ Base Detecting Paint and how does it work?

ON GUARD™ Base Detecting Paint is a latex, base/caustic detecting paint, that is formulated for industrial application. ON GUARD™ Base Detecting Paint immediately turns from BRIGHT WHITE to BRILLIANT BLUE in the presence of bases pH 10 or higher.

What is different and unique about ON GUARD™ Base Detecting Paint?

Patented ON GUARD™ Base Detecting Paint REVERSES it's color and turns back to BRIGHT WHITE when the leak has been isolated, repaired, and flushed with water. The BRIGHT WHITE color verifies the repair and is ready to detect another leak.

Does ON GUARD™ Base Detecting Paint have to be stripped off and reapplied after each base exposure?

NO! Simply flush with tap water or a mild acidic solution until the bright white color returns and ON GUARD™ Base Detecting Paint is ready to reveal the next leak incident. Under exceptionally harsh conditions, or if physical, chemical or thermal damage has occurred to the paint, a new application or touch up of ON GUARD™ Base Detecting Paint will be necessary.

How is ON GUARD™ Base Detecting Paint applied?

ON GUARD™ Base Detecting Paint is designed as a brush-on formula. Apply ON GUARD™ Base Detecting Paint as you would any other quality exterior latex paint product to 4 mil dry thickness, which equates to approximately two brush coats, using a quality brush or roller. Spraying is an option. Thin with water. Allow adequate dry and cure time.

Does a primer coat need to be applied?

It is essential to use a quality grade primer. Use a latex primer with rust inhibitor over raw metal. The surfaces need to be clean, dry, oil, rust, dust, and contamination free.

Can ON GUARD™ Base Detecting Paint be applied over existing paint?

Yes. ON GUARD™ Base Detecting Paint may be applied over existing *latex* coatings as long as the surfaces are clean, dry, oil, rust, dust, and contamination free. If the existing coating is glossy and/or is less than one year old, it may not have sufficient porosity to facilitate satisfactory adhesion. In such instances, scuff sand overly smooth surfaces and/or use a transition coating.

Typically, applying a latex-based coating over a solvent-based coating requires a transition coating to achieve innercoat adhesion. One transition practice used is to wipe down the solvent based coating surface with xylene or laquer thinner which makes it tacky and open and receptive to the latex based coating.

Once applied, how long does ON GUARD™ Base Detecting Paint last?

ON GUARD™ Base Detecting Paint should last a minimum of two years interior or exterior. Under exceptionally harsh conditions, regular inspections should be conducted to assure the coating is in excellent condition. Since ON GUARD™ Base Detecting Paint was developed as a safety coating, not a protective coating, it is always good practice to assure the coating is in excellent condition. The shelf life of ON GUARD™ Base Detecting Paint is two years in the factory-sealed can at ambient temperature.

Does ON GUARD™ Base Detecting Paint contain any heavy metals such as lead?

NO! It is all organic. There are no metals in the formula.

Can ON GUARD™ Base Detecting Paint help with turn around time and new installations?

Absolutely! All surfaces coated with ON GUARD™ Base Detecting Paint in a new installation or during a repair period become an invaluable aid at start-up time. Each industry, and each company and plant may have different SOP's at startup time, but a good practice is to station plant personnel at sensitive areas when a product is first flowed. If there is a base/caustic leak, the BRIGHT WHITE paint will instantly turn BRILLIANT BLUE. The leak can then be isolated, repaired, neutralized, and rinsed. The process can then resume, and ON GUARD™ Base Detecting Paint will help determine if the leak is repaired properly, and warn you if there are any additional leaks.

The logo for RAMCO, featuring the word "RAMCO" in a bold, red, italicized font, set against a black rectangular background with a white border.

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