

PRODUCT TECHNICAL BULLETIN

Raybo Flash Rust Inhibitors Setting the Standard for Flash Rust Protection

Raybo 60 NoRust, the industry standard for flash rust protection, contains corrosion inhibitive properties that provide superb flash rust, in-can and vapor phase protection. Raybo 80 NoRust, due to a higher level of activity, is more effective in high performance protective coatings and on aggressive substrates. Raybo 90 NoRust NF is a nitrite free flash rust inhibitor intended for nitrite sensitive markets and where water sensitivity may be a concern. Raybo flash rust inhibitors contain both vapor phase and contact corrosion inhibitors, providing protection against flash rusting in a variety of water based systems. The addition of Raybo flash rust inhibitors at 0.5 to 2.0% does the following:

- Eliminates flash rust in direct-to-metal applications
- Provides vapor phase in-can corrosion protection
- Protects lined containers from corrosion when micro-cracked

Flash Rust Protection



Suggested Formula: Flat White Vinyl-Acrylic Latex (UCAR 379G) with 0.5% Raybo Flash Rust Inhibitor

Use high speed dispersion to mix the following:

Water	165.8
BYK-035 ¹	1.7
Ethylene Glycol ²	17.9
Tamol 731A 25% ³	6.0
Triton X-100 ⁴	6.8
Natrosol 250 HXR ²	5.5

Mix well, then add the following:

Ti Pure R-900 ⁵	49.7
Satintone W ⁶	256.8
Gamaco ⁷	271.5
BYK-035 ¹	4.1

Disperse to 5.0+ Hegman Grind, then add the following:

Water	336.6
UCAR 379G ⁴	76.1

Mix well, then add the following:

Texanol ⁸	4.5
Amp-95 ⁴	0.5
Busan 1024 ⁹	2.4
Raybo Flash Rust Inhibitor ¹⁰	6.0

Physical Properties:

Grind (Hegman)	5.0+
Viscosity (KU)	87-90
pH	8.5-9.5
Total Weight	1211.9
Density (lbs/gal)	12.12
% Weight Solids	53.09
% Volume Solids	31.98
PVC%	80.36
VOC (lbs/gal, with exempt solvent)	0.27
VOC (lbs/gal, minus exempt solvent)	0.78

Suppliers:

1 BYK Chemie	6 BASF
2 Ashland	7 Imerys
3 Rohm & Haas	8 Eastman Chemical
4 Dow Chemical	9 Buckman Laboratories
5 DuPont	10 Raybo Chemical

Vapor Phase In-Can Corrosion Protection



Panels partially immersed in UCAR 379 for 23 days (120°F, pH adjusted to 9.0)