

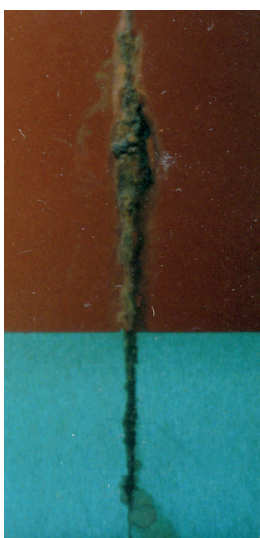
10 ES WOLLASTOCOAT® - Improved Cost/Performance Anticorrosive Profile for Water-Based Epoxy Coating

The addition of 10 ES WOLLASTOCOAT provides a synergistic effect with a variety of inhibitors to give excellent resistance in Henkel's Waterpoxy 1401/701 system.

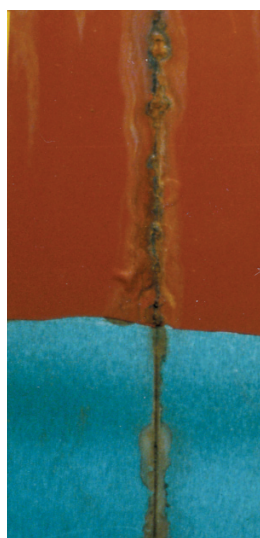
Resin ratio of Waterpoxy 1401:701 = 100/22.09

2472 Hours in 5% Salt Spray/36% PVC

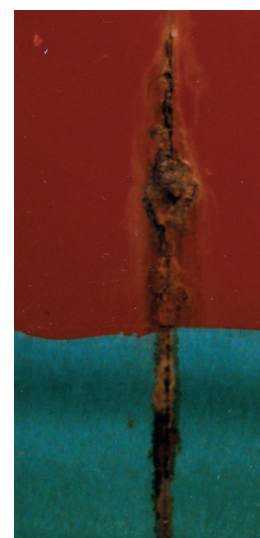
10 ES WOLLASTOCOAT/Heucophos ZPZ
(67:33)
A



10 ES WOLLASTOCOAT/Phosguard J-0815
(67:33)
B



10 ES WOLLASTOCOAT/Heucophos ZMP
(67:33)
C



Primer	Corrosion Coated General	Corrosion Coated Scribe	Blistering Degree	Blister Size	Corrosion Stripped General	Corrosion Stripped Scribe	Overall Primer Rating Average Value
A	10	5.5	10	10	10	7.00	8.75
B	10	6	10	10	9.5	6	8.58
C	10	4	10	10	10	6	8.33

Rating Scale

10 = Best 0 = Worst

Benefits of 10 WOLLASTOCOAT in Industrial Coatings

- Reinforce film cohesion and improves mechanical properties
- Synergism with anti-corrosion inhibitors
- Improves durability and corrosion resistance
- Chemical treatment improves homogeneity and engineered reactivity
- Reduces cracking and checking
- Enhances resistance to brittle failure
- Improves resistance to physical degradation resulting from UV radiation
- Prolongs service life of coating, especially in high aspect ratio grades

Typical Properties of 10 WOLLASTOCOAT

G.E. Brightness	93
Bulk Density (lbs./cu.ft.)/ (g/cc)	
Loose	(41) (0.65)
Tapped	(53) (0.85)
Oil Absorption (lbs./100 lbs.)	25
Hegman Grind	>6
Microtrac D ₅₀ (µm)	4
Aspect Ratio (L/D)	3:1

Procedure for Generating Panels

Primer films were cast on smooth MEK washed cold rolled steel Q-Panels using doctor blade techniques in films of 3±0.25 dry mills. All coated panels were allowed to age three weeks prior to testing and then scribed to the bare metal with a tungsten carbide scribing tool, backed vinyl tape and exposed for 1000 hours in 5% salt spray (ASTM B-117).

At the end of this exposure, the panels were removed from the cabinet, allowed to dry, then evaluated for general face corrosion (rated under ASTM D-1654) and for blistering resistance (both degree and size of blister) using the numerical guide found in Federal Standard Test Method #141a Method 6461. Evaluations were then made of the general face corrosion of the bare steel exposed, and of the bare steel in the scribe area. All six data points for each primer were then averaged (being weighted equally) to give an overall numerical expression for the performance value of the primer.