



Innovative Manufacturer of
High Performance Coatings



Kalcor 88+



A New Generation of Brake Rotor Coating

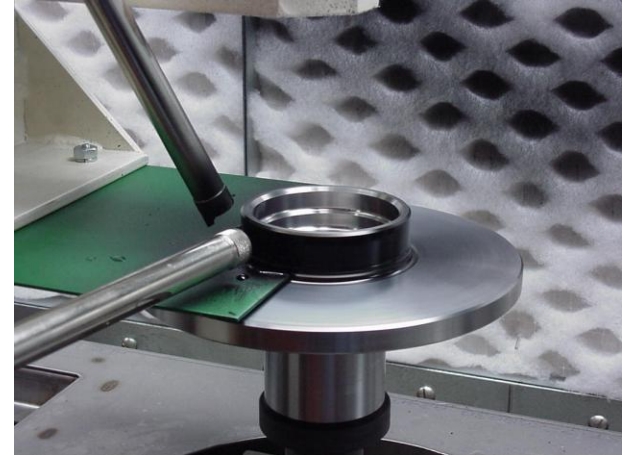
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Coating design goals

- Heat Resistance above 300°C
- Corrosion Resistance above 240 hrs. (heat tested and ambient parts)
- Cost competitive with existing products on a per-part (as applied) cost
- Superior performance including fluid tests
- One coat application
- Fast drying to permit rapid film thickness measurement and packaging

Kalcor 88+ properties

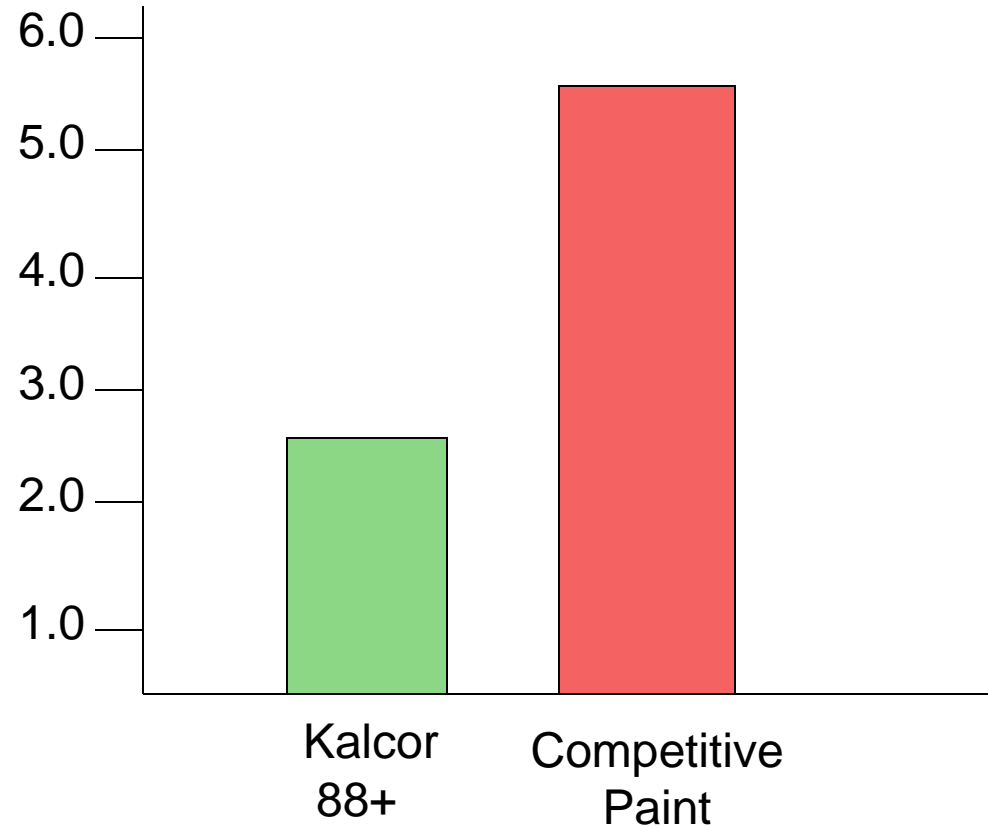
- Curing
 - Preheated Part (130°F - 160°F)
 - Touch: <5 minutes
 - Handle 5-10 minutes
- Pretreatment
 - Can be applied over synthetic coolants
 - Excellent over iron or zinc phosphates
- Application
 - Substrate: Steel
 - Reducing Solvent: Water
 - Specified Film Thickness: 2.5 – 2.7 mil DFT
 - Application viscosity: As supplied



Reduced film thickness

Kalcor 88+ provides Better performance at about one-half the film thickness of conventional rotor paint systems.

Dry Film Thickness (mils)



Reduced film thickness means...

- Easier to apply
- Lower paint costs
- Single coat application
- Improved quality – better run-out
- Fewer masking problems
- Less wear on application system
- Less cleanup, downtime
- Reduced paint storage, shipping, waste



Kalcor 88+ versus Competition

650F Heat Test
3 hrs / cold plunge
Competitive Paint



650F Heat Test
3 hrs / cold plunge
Kalcor 88+



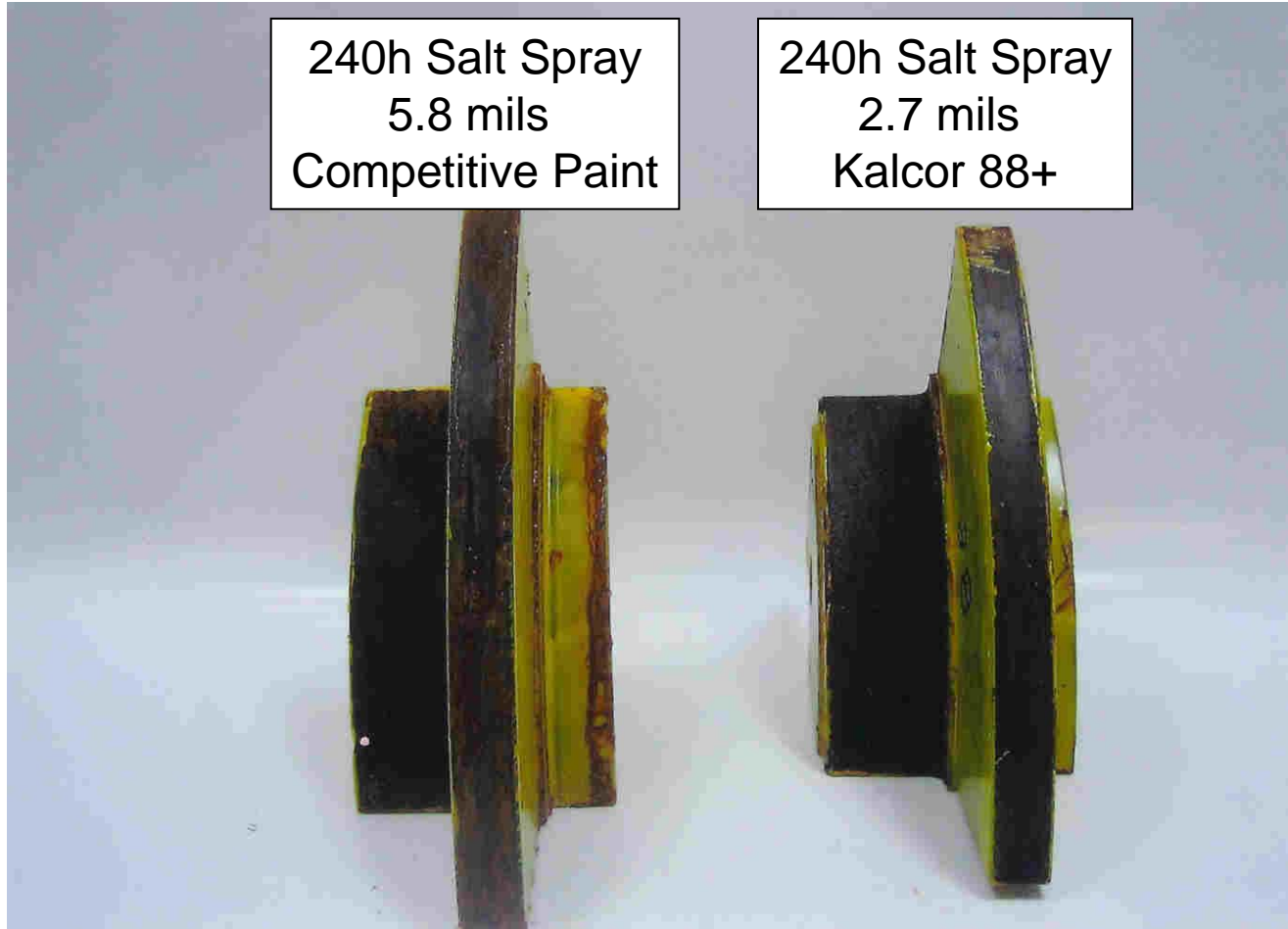
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Kalcor 88+ versus Competition

240h Salt Spray
5.8 mils
Competitive Paint

240h Salt Spray
2.7 mils
Kalcor 88+



Kalcor 88+

	Ambient	3 Hours @ 650F
Salt Spray 240h	No Blisters No Rust < 3mm Creep No loss of adhesion	No Blisters No Rust < 3mm Creep No loss of adhesion
Humidity 96h	No blisters No rust Slight discoloration No loss of adhesion	No blisters No rust No discoloration No loss of adhesion
Water Immersion 96h @ 90F	No blisters No rust No discoloration No loss of adhesion	No blisters No rust No discoloration No loss of adhesion

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	Ambient	3 Hours @ 650F
Brake Fluid (Panels heated to 120F then sprayed) 1 hr/drop	Softened / No recovery	Slight softening No loss of adhesion Recovered overnight
Antifreeze 50/50 with H2O 1 hour/150F	Slight softening, recovered overnight No Blisters No discoloration	No softening No blisters No discoloration
Power Steering Fluid 1 Hour room temp	No blisters No loss of adhesion Slight discoloration	No blisters No loss of adhesion No discoloration

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	Ambient	3 Hours @ 650F
Transmission Fluid 1 hour @ room temp	No blisters No loss of adhesion No discoloration	No blisters No loss of adhesion No discoloration
Engine Oil (SAE 30) 1 hour @ 150F	No blisters No loss of adhesion No discoloration	No blisters No loss of adhesion No discoloration
Gasoline 1 hour @ room temp	No blisters No loss of adhesion No discoloration	No blisters No loss of adhesion No discoloration
Diesel Fuel 1 hour @ room temp	No blisters No loss of adhesion No discoloration	No blisters No loss of adhesion No discoloration

Physical specifications

- 9.95 (+/-0.2) lb/gallon
- Viscosity 55.0 (+/- 5.0) seconds Zahn #2 @ 77F
- 47.7% solids by weight (+/- 2%)
- 37.3% solids by volume (+/- 2%)
- VOC 1.29 lb/gallon (155 g/L)
- Flash point 170F (SETA)
- Theoretical Coverage = 598 sq. ft. / gal (@ 1 mil DFT)