

# Water-Reducible High Gloss Alkyd Formulation for General Industrial Use

with Borchi® Performance Additives



 HAPS-free

High-performance formulation for improved adhesion, corrosion resistance, and reverse impact compared to benchmark formulations



General Industrial Paint Formula			
Material	Function	Supplier	Formulation (Weight)
Deionized Water	Solvent	N/A	5.05
<b>Borchi® Burst DF 300</b>	<b>Defoamer</b>	<b>Milliken</b>	<b>0.11</b>
<b>Borchi® Gen 1252</b>	<b>Dispersant</b>	<b>Milliken</b>	<b>0.60</b>
Kronos 2310	Titanium Dioxide	Kronos	20.92
High speed disperse to 7+ Hegman			
Charge to letdown tank			
Polychem 7775-EB-70	Resin	OPC Polymers	27.89
Butyl Cellosolve	Solvent	DOW	1.49
Triethylamine	Amine	Sigma-Aldrich	1.34
Deionized Water	Solvent	N/A	41.17
Add grind paste to letdown			
Premix next four items, then add slowly, incompatibility will occur if not premixed			
Butyl Cellosolve	Solvent	DOW	0.75
<b>10% Cobalt Hydro-Cure® IV</b>	<b>Drier</b>	<b>Milliken</b>	<b>0.15</b>
<b>5% Calcium Hydro-Cem®</b>	<b>Drier</b>	<b>Milliken</b>	<b>0.29</b>
<b>12% Zirconium Hydro-Cem®</b>	<b>Drier</b>	<b>Milliken</b>	<b>0.24</b>
<b>Total</b>			<b>100.00</b>

## Borchi® Performance Additives







### Borchi® Burst DF 300:

-  VOC- and silicone-free
-  Foam control agent and defoamer

### Borchi® Gen 1252:

-  100% active, VOC- and APEO-free
-  Wetting and dispersing agent

## Formula Specifications

-  **Lb/gal:** 10.05
-  **Viscosity:** 64 ± 3 KU
-  **NVV:** 27.27%
-  **VOC (g/L):** 336
-  **PVC:** 22.07%
-  **pH:** 8.3-8.8



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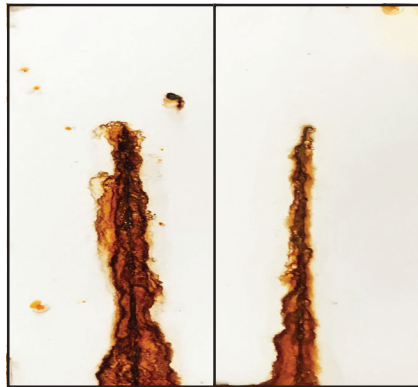
HAPS-free

## Improved Corrosion Resistance

ASTM B117 Q-Fog Salt Spray

**Benchmark Formula**

**Optimized Formula**

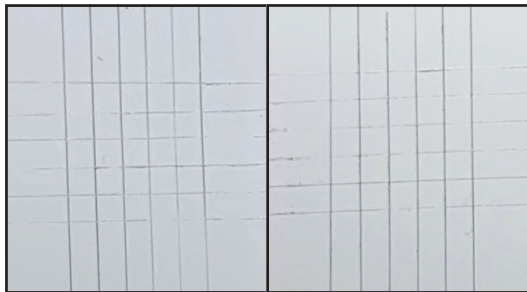


6 mil WFT, R-36 Cold Rolled Steel Panel, 7-day cure, 336 hours, 3" Line Scribe

## Optimized Adhesion

**Scotch 600 Tape**

**Permacel Tape**



ASTMD 3359 Class: 5B

ASTMD 3359 Class: 5B

6 mil WFT, R-36 Cold Rolled Steel Panel, 7-day cure

## Excellent Reverse Impact

**Benchmark Formula**

**Optimized Formula**

144 inch-pounds		
120 inch-pounds		
60 inch-pounds		
20 inch-pounds		
4 inch-pounds		

6 mil WFT, R-36 Cold Rolled Steel Panel, 7-day cure, 4-lb weight

Order your sample at:  
[www.borchers.com/contact](http://www.borchers.com/contact)

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