

## Product Datasheet

**Resicoat® Primer**  
**Internal Pipe Coating**  
**Code: 596301 (Corvel EP-10 Primer 1P-0010)**

<b>Product Description</b>	Resicoat® Primer 596301 (Corvel EP-10 Primer 1P-0010) is a phenolic based-liquid coating designed for priming the inside of steel pipes prior to the application of high performance Resicoat® FBE powder coating.		
<b>Powder Properties</b>		<b>Typical value</b>	<b>Method</b>
	<b>Color</b>	red	
	<b>Density</b>	1.15 – 1.25 g/cm <sup>3</sup>	calculated
	<b>Weight / Gallon</b>	9.9 lbs/gal. (1.15 kg/l)	
	<b>Viscosity</b>	16 – 21 secs.	No. 2 Zahn Cup
	<b>% Solids by Weight</b>	47.7 %	
	<b>Flash Point</b>	64° F (18° C)	ASTM D93
	<b>Storage stability</b>	12 months at ≤ 74° F (23° C)	
<b>Application Data</b>	<b>Surface Preparation</b>	NACE #1 White Metal Blast SA 2.5 – SA3	
	<b>Anchor Profile</b>	Min. 1.5 mil (38 µm) sharp, dense	
	<b>Application Method</b>	Spray or brush at 14 – 170° F (-10° C – 77° C)	
	<b>Reducing Solvents</b>	Methanol, Ethanol, Butanol (as required by applicator)	
<b>Note</b>	Less than optimum adhesion may result if primed substrate is preheated longer than one hour at 320° F (160° C) or 10 minutes at 425° F (218° C).		
<b>Caution</b>	Contact with Resicoat® 596301 (Corvel EP-10 Primer 1P-0010) may cause skin irritation. Synthetic gloves and organic vapor masks are recommended precautions. Keep away from sparks and open flames. Adequate ventilation is necessary in the workplace.		
<b>Date of issue:</b>	<b>March 6, 2014</b>		
<b>Authorized by:</b>	<b>GK</b>		
<b>Revision no.:</b>	<b>3</b>		

Disclaimer: This Product Data Sheet is based on the present state of our knowledge and on current laws. The data referring to Powder Properties, Application Data and Physical Tests is based on lab based samples. Factors such as quality or condition of the substrate may have an effect on the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. The use of the product beyond our recommendation releases us from our responsibility, unless we have recommended the specific use in writing. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. We are not liable for any application-technological advice. The Product Data Sheet shall be updated from time to time. Please ensure you have the latest version before using the product. All products and Product Data Sheets are subject to our standard terms and conditions of sale (GCS). You can receive the latest copy of GCS via internet or our post address. Brand names mentioned in this Product Data Sheet are trademarks of or are licensed to the AkzoNobel group.

## Product data sheet

# Resicoat® HKH12QF (Corvel® 10-6051) Pipe Internal Coating

### Product Description

Resicoat® PI HKH12QF (Corvel® 10-6051 green) is a melt-mixed, 100% solids Novolac-modified epoxy designed for pipe internal coating. Resicoat® PI HKH12QF (Corvel® 10-6051 green) is used at elevated temperatures and pressures in drill pipe, production tubing, CO<sub>2</sub> injection tubing, valves and fittings. The product displayed no swelling, no blistering, no cracking, no detachment from the substrate, and nearly no color change when the coated substrate was exposed to controlled tests at temperatures of up to 300 °F.\* Resicoat® PI HKH12QF (Corvel® 10-6051 green) offers a good combination of toughness and flexibility which will resist damage and cracking during handling and coupling operations. When applied, as recommended, over Resicoat® 596301 primer (Corvel® EP-10 1P-0010), Resicoat® PI HKH12QF is resistant to H<sub>2</sub>S, CO<sub>2</sub>, CH<sub>4</sub> and petroleum distillates.

	Typical value	Method
<b>Powder Properties</b>		
Binder system	Novolac-modified epoxy	
Specific gravity	1.65 – 1.75	calculated
Coverage	112 ft <sup>2</sup> /lb/mil	calculated
Gel time @ 400 °F (204 °C)	75 – 125 sec.	ISO 8130-6
Storage stability	12 months at ≤ 74 °F (23 °C), stored in dry conditions	
<b>Application Data</b>		
Surface preparation	All oil, grease, mill scale, and rust must be removed. A blast profile of 1.5 – 2.5 mils (38 – 64 µm) minimum NACE #1 is required.	
Anchor profile	1.5 sharp, dense recommended	
Resicoat® 596301 primer, dry thickness	0.5 – 1.0 mil (13 – 25 µm)	
Preheating	20 min. at 320 °F (160 °C)	
Post-curing	30 min. at 425 °F (218 °C)	
Recommended film thickness	8 – 12 mils (200 – 300 µm)	
Particle size distribution	70 Mesh: 3 % max. 140 Mesh: 15 – 30 % 325 Mesh: 50 – 65 %	ASTM D 3451 (% retained)
<b>Material Properties</b>		
Color	green	
Flow	smooth	
Direct impact resistance	100 in. lbs	ASTM D 2794 (5/8" intender)

*\* This statement is specifically limited to the evaluation conditions specified in the autoclave test section of this product data sheet. This is not a guarantee of actual performance at the operating temperature. This representation is also subject to the disclaimer contained on Page 3 of this product data sheet.*



	Typical value	Method	
<b>Material Properties (continued)</b>	<b>Taber abrasion</b>	ASTM D 1044 CS-10, 1000 g, 5000 cycles CS-17, 1000 g, 5000 cycles	
	< 100 mg < 140 mg		
		64 mg	ASTM D 4060 CS-17, 1000 g, 1000 cycles
	<b>Cathodic disbonding*</b>	1.5 mm	ASTM G 8 23° C, -1.50 V, 30 d 1% sodium chloride, 1 % sodium sulfate, 1 % sodium carbonate
	<b>Pull-off strength*</b>	45.2 MPa	ASTM D 4541
	<b>Hardness, Shore D</b>	> 90	
	<b>Flexibility at 74° F (23° C)</b>	pass 1°	CSA Z245.20-10
	<b>Edge coverage</b>	30 % at 8 – 15 mils (200 – 375 µm)	MPTM, Method B: Preheat: 15 min. at 320 °F (160 °C) Dip cycle: 2 sec. Post-heat: 15 min. at 425 °F (218 °C)
	<b>Salt spray resistance</b>	≤ 1/8" undercut at 1700+ hours	ASTM B 117, X-Scribe
	<b>Adhesion shear</b>	> 4000 psi	ASTM D 1002, ½" overlap.
	<b>Elongation</b>	11 % 2.4 %	ASTM D 2370 10 – 15 mils on steel dogbone 10 – 15 mils on free film
	<b>Tensile strength free film</b>	> 7,500 psi	ASTM D 2370
	<b>Water immersion</b>	< 0.30 % wt.gain	Room temp., 24 h
	<b>Hot water immersion</b>	No blisters, good adhesion	190 °F (88 °C), 120 days
	<b>Dielectric strength</b>	> 1000 volts/mil > 600 volts/mil	ASTM D 149 In oil at 10 – 15 mils (250 – 375 µm) In air at 10 – 15 mils (250 – 375 µm)
	<b>Atlas cell*</b>	no blisters, no corrosion, no cracks Pull-off strength 44.9 MPa no blisters, no corrosion, no cracks	ASTM C 868 40° C, 2000 h, pH 5 NACE TM 0185 150° C, 1000 h, pH 5 Gas phase 96 % of CO <sub>2</sub> , 4 % H <sub>2</sub> S

\* Results are based on Resicoat® PI HMH12QF (Corvel® 10-6051) applied over primer 596301

	Typical value	Method	
<b>Chemical Resistances</b>	100 % relative humidity	No visible change	ASTM D 2247 (104 °F, 2000 h)
	Distilled water	No visible change	ISO 2812-2 (104 °F, 2000 h)
	NaOH 30 %	No visible change	ISO 2812-1 (77 °F, 2000 h)
	H <sub>2</sub> SO <sub>4</sub> 40 %	No visible change	ISO 2812-1 (77 °F, 2000 h)
	Xylene	No visible change	ISO 2812-1 (77 °F, 2000 h)
	Coke naphtha	No visible change	ISO 2812-1 (77 °F, 2000 h)
	Fuel ethanol	No visible change	ISO 2812-1 (77 °F, 2000 h)
Chemical resistance results are based on Resicoat® PI HMK12QF (Corvel® 10-6051) applied over primer® 596301			
<b>Autoclave Tests</b>	<b>Resicoat® PI HMK12QF (Corvel® 10-6051 green) has been used for many years to coat mostly over phenolic primer drill pipe, production tubing and CO<sub>2</sub> injection tubing. It has been evaluated under various autoclave test conditions such as those referenced below:</b>		
	<u>Autoclave #1</u>		
	Time: 7 days	no swelling, no blistering, no cracking, no detachment from the substrate Discoloration in the gas phase	
	Temp.: 350 °F (177 °C)		
Pressure: 5000 psi			
Discharge: within 2-3 min. to 100 °F (38 °C)			
Immersion: 50% in each phase			
Gas: 3 % CO <sub>2</sub> , 96.8 % CH <sub>4</sub> , 0.2 % H <sub>2</sub> S			
Liquid: Formation Water Sodium Chloride, Calcium Chloride Magnesium Sulphate, Hydrogencarbonate			
<u>Autoclave #2</u>			
Time: 7 days	no swelling, no blistering, no cracking, no detachment from the substrate Discoloration in the gas phase		
Temp.: 400 °F (204 °C)			
Pressure: 5000 psi			
Discharge: within 2-3 min. to 100 °F (38 °C)			
Immersion: 50% in each phase			
Gas: 3 % CO <sub>2</sub> , 96.8 % CH <sub>4</sub> , 0.2 % H <sub>2</sub> S			
Liquid: Formation Water Sodium Chloride, Calcium Chloride Magnesium Sulphate, Hydrogencarbonate			
<u>Autoclave #3</u>			
Time: 7 days	no swelling, no blistering, no cracking, no detachment from the substrate, no color change		
Temp.: 300 °F (149 °C)			
Pressure: 6500 psi			
Discharge: within 2-3 min. to 100 °F (38 °C)			
Immersion: 50% in each phase			
Gas: 3 % CO <sub>2</sub> , 92.0 % CH <sub>4</sub> , 5.0 % H <sub>2</sub> S			
Liquid: Formation Water Sodium Chloride, Calcium Chloride Magnesium Sulphate, Hydrogencarbonate			



<b>Autoclave Tests (continued)</b>	<b><u>Autoclave #4</u></b>	Time: 120 days Temp.: 302 °F (150 °C) Pressure: 70 psi Discharge: within 10 min. to 100 °F (38 °C) Immersion: 100% in water	no swelling, no blistering, no cracking, no detachment from the substrate
	<b><u>Autoclave #5</u></b>	Time: 30 days Temp.: 150° F (65° C) Pressure: 285 psi Discharge: 1 – 3 min. Immersion: 50 % immersed in each phase Gas: 100 % CO <sub>2</sub> Liquid: Wasia Water: Na = 2500 ppm, Ca = 600 ppm, Mg = 120 ppm, Cl = 4000 ppm, SO <sub>4</sub> = 1000 ppm, HCO <sub>3</sub> = 200 ppm, pH = 6.8 – 7.2	Aramco 09-SAMSS-091 laboratory panels  no swelling, no softening, no blistering, no loss of adhesion  Pass X Scribe Adhesion 1200 psi pull off gas phase 1250 psi pull off liquid phase
	<b><u>Autoclave #6</u></b>	Time: 30 days Temp.: 150° F (65° C) Pressure: 3000 psi Discharge: 1 – 3 min. Immersion: 50 % immersed in each phase Gas: 100 % CO <sub>2</sub> Liquid: Wasia Water: Na = 2500 ppm, Ca = 600 ppm, Mg = 120 ppm, Cl = 4000 ppm, SO <sub>4</sub> = 1000 ppm, HCO <sub>3</sub> = 200 ppm, pH = 6.8 – 7.2	Aramco 09-SAMSS-091 laboratory panels  no swelling, no softening, no blistering, no loss of adhesion  Pass X Scribe Adhesion 1050 psi pull off gas phase 1260 psi pull off liquid phase
<b>Recommended Repair Material</b>	Enviroline 2960		
<b>Date of issue:</b>	<b><u>July 13, 2015</u></b>		
<b>Authorized by:</b>	<b>GK</b>		
<b>Revision No.:</b>	<b>8</b>		

Disclaimer: This Product Data Sheet is based on the present state of our knowledge and on current laws. The data referring to Powder Properties, Application Data and Physical Tests is based on lab based samples. Factors such as quality or condition of the substrate may have an effect on the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. The use of the product beyond our recommendation releases us from our responsibility, unless we have recommended the specific use in writing. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. We are not liable for any application-technological advice. The Product Data Sheet shall be updated from time to time. Please ensure you have the latest version before using the product. All products and Product Data Sheets are subject to our standard terms and conditions of sale (GCS). You can receive the latest copy of GCS via internet or our post address. Brand names mentioned in this Product Data Sheet are trademarks of or are licensed to the AkzoNobel group.

# 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

Data Sheet and Application Guide

February 2016

**Handling and Safety Precautions:** Read all Health Hazard, Precautionary and First Aid, Material Safety Data Sheet, and product label prior to handling or use.

**Product Description** 3M Scotchkote Fusion-Bonded Epoxy Coating 134 is a one-part, heat curable, thermosetting epoxy coating designed for corrosion protection of metal. The epoxy is applied to preheated steel as a dry powder which melts and cures to a uniform coating thickness when properly applied. This bonding process provides excellent adhesion and coverage on applications such as valves, pumps, pipe drains, hydrants, pipes, tanks and porous castings. Scotchkote coating 134 is NSF/ANSI 61 certified for potable water applications and is also resistant to wastewater, corrosive soils, hydrocarbons, harsh chemicals, and sea water. Powder properties allow easy manual or automatic application by electrostatic or air-spray equipment.

**Product Features**

- No primer required for most applications.
- For electrostatic or air-spray application on preheated metal articles.
- Can be electrostatically applied to unheated metal parts and subsequently cured by baking.
- Long gel time allows application on large or complex articles, minimizing fear of runs, sags, laminations, or unsightly overspray.
- Especially useful for coating the inside of pipe or other fabrications where a smooth, corrosion resistant coating is required.
- Can be machined by grinding or cutting to meet close tolerance requirements.
- Allows easy visual inspection of coated articles.
- Can be painted with alkyd paint, acrylic lacquer, polyurethane, or acrylic enamel for color coding.
- Applied coating will not sag cold flow.
- Lightweight for lower shipping costs.
- Protects over wide temperature range.
- Resists direct burial soil stress.
- Resists cavitation and cathodic disbondment.
- Can be used for elevated temperature service in presence of H<sub>2</sub>S, CO<sub>2</sub>, CH<sub>4</sub>, crude oil and brine when applied over phenolic primer such as 3M Scotchkote Liquid Phenolic Primer 345.
- Long-term performance history in water, sewage, and other service environments.
- Scotchkote coating 134 has been tested and certified to NSF /ANSI Standard 61, Drinking Water System Components. For NSF certified applications, the max approved thickness is 60 mil (1.5 mm) and the maximum approved operating temperature is 140°F/60°C. Primers may not be used for potable water applications.
- Scotchkote coating 134 meets the requirements of AWWA Standard C213 and C550.





## 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

---

**Temperature Operating Range** For non-potable water applications Scotchkote coating 134, when properly applied to a nominal thickness of 15 mils, should perform on pipelines operating between -100°F/-73°C to 203°F/95°C. For temperatures reaching 230°F/110°C thicker coatings, greater than 30 mils, may improve the service capability. However, it is difficult to accurately predict field performance from the laboratory data due to the wide variations in actual field conditions. Soil types, moisture content, temperatures, coating thickness, and other factors specific to the area all influence the coating performance and upper temperature operating limits.

---

**General Application Information**

1. Remove oil, grease and loosely adhering deposits.
2. Abrasive blast clean the surface to NACE No. 2/SSPC-SP10 ISO 8501:1, Grade SA 2 ½ near-white metal.
3. Apply mechanical masks or mask with materials such as 3M Scotch® Glass Cloth Tape 361 or 3M Aluminum Foil Tape 425 as required.
4. Preheat article to the desired application temperature per cure specifications.
5. Deposit Scotchkote coating 134 by powder spray to the specified thickness.
6. Cure according to cure specifications.
7. Visually and electrically inspect for coating flaws after the coating has cooled.
8. Repair all defects.

---

**Cure Specifications** Scotchkote coating 134 may be applied to metal articles which have been preheated to a temperature of 300°F/149°C to 475°F/246°C. After application, Scotchkote coating 134 must be cured according to the cure guide to achieve maximum performance properties.

If Scotchkote coating 134 is electrostatically applied to unheated parts, the cure time should be measured from the time the coated part reaches the cure temperature. After cure, the coating may be force cooled using air or water to facilitate inspection and handling.

---

# 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

## Product - Physical and Chemical Properties

### 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134 Cure Guide

Temperature of Article at Time of Powder Application	Typical Gel Time	Cure Time
475°F/246°C	40 seconds	7 minutes
450°F/232°C	60 seconds	10 minutes
400°F/204°C	120 seconds	15 minutes
350°F/177°C	330 seconds	25 minutes
425°F/218°C	90 seconds	25 minutes for NSF/ANSI 61 approved applications

### Typical Properties

Property	Value
Color Forest Green	Color Forest Green
Specific Gravity – Powder (Air Pycnometer)	1.51
Coverage	127 ft <sup>2</sup> /lb/mil (066 m <sup>2</sup> /kg/mm)
Fluid Bed Density 33 lbs/ft <sup>3</sup> (530 kg/m <sup>3</sup> )	33 lbs/ft <sup>3</sup> (530 kg/m <sup>3</sup> )
Shelf Life at 80°F/27°C 18 months	Shelf Life at 80°F/27°C 18 months
Average Gel Time (400°F/204°C)	120 seconds
Edge Coverage	12% to 18%
Minimum Explosive Concentration	0.03 oz/ft <sup>3</sup> (30.6 g/m <sup>3</sup> )
Ignition Temperature	986°F/530°C
V.O.C. (As Supplied)	0 g/L, as calculated

### Chemical/Pressure/Temperature Resistance

Test Conditions	Gas Phase	Results
Autoclave, 120°F/49°C 48 hours, 1500 psi/10.3 MPa	99.5% CO <sub>2</sub> 0.5% H <sub>2</sub> S	Excellent adhesion, no coating loss or blisters in aqueous, hydrocarbon, or gas phase
Autoclave, 150°F/66°C 48 hours, 2200 psi/15.2 MPa	80% CH <sub>4</sub> 12% CO <sub>2</sub> 8% H <sub>2</sub> S	Excellent adhesion, no coating loss or blisters in aqueous, hydrocarbon, or gas phase
Autoclave, 200°F/93°C 24 hours, 3300 psi/22.8 MPa	86% CH <sub>4</sub> 8% CO <sub>2</sub> 6% H <sub>2</sub> S	Excellent adhesion, no coating loss or blisters in aqueous, hydrocarbon, or gas phase
Autoclave, 300°F/149°C 24 hours, 3000 psi/20.7 MPa	90% CH <sub>4</sub> 10% CO <sub>2</sub> Trace H <sub>2</sub> S	Excellent adhesion, no coating loss or blisters in aqueous, hydrocarbon, or gas phase

All tests performed on 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 134 applied over a 1 mil/25,4 μm phenolic primer. Liquid phase for all test conditions: 33% kerosene, 33% toluene, 34% brine solution of 5% NaCl.



# 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

## Continued Product - Physical and Chemical Properties

### Chemical Resistance Testing

#### ASTM G20-10 Immersion Testing at 20°C

Solution	30 days	60 days	90 days
Acetic Acid (5%)	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Acetone	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery
Carbon Disulfide	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Gasoline	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Hydrochloric Acid (10%)	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Kerosene	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Lime Water, Saturated	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Methyl Alcohol	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Methyl Ethyl Ketone	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery
Nitric Acid (10%)	Discoloration; No blistering or disbondment	Discoloration; No blistering or disbondment	Discoloration; No blistering or disbondment
Sodium Carbonate Solution (20%)	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Sodium Chloride Solution (10%)	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Sodium Hydroxide Solution (10%)	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Sulfuric Acid (30%)	No blistering or disbondment	No blistering or disbondment	Slight discoloration; No blistering or disbondment
Toluene	No blistering or disbondment	No blistering or disbondment	No blistering or disbondment
Trichloroethylene	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery	No blistering or disbondment, coating is slightly rubbery



# 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

## Continued Product - Physical and Chemical Properties

3M internal – Historical Chemical Resistance testing based on similar, but not identical products.\*\*

Testing Temperature 73°F (23°C\*)

Acetic Acid up to 25%	Ferric Nitrate	Potassium Borate
	Ferric Sulfate	Potassium Carbonate
Aluminum Chloride	Ferrous Nitrate	Potassium Chloride
Aluminum Hydroxide	Ferrous Sulfate	Potassium Dichromate up to 10%
Aluminum Nitrate	Formaldehyde up to 100%	Potassium Hydroxide
Aluminum Sulfate	Formic Acid up to 10%	Potassium Nitrate
Ammonium Carbonate	Freon: gas and liquid	Potassium Sulfate
Ammonium Chloride	Gas (Mfg)	Propylene Glycol
Ammonium Hydroxide up to 100%	Gas (Natural)	Sewage
Ammonium Nitrate	Gasoline Leaded	Silver Nitrate
Ammonium Phosphate	Gasoline Unleaded	Soap Solution
Ammonium Sulfate	Glycerine	Soaps
Amyl Alcohol	Heptane	Sodium Bicarbonate
Barium Carbonate	Hexane	Sodium Bisulfate
Barium Chloride	Hexylene Glycol	Sodium Carbonate
Barium Hydroxide	Hydrochloric Acid up to 25%	Sodium Chlorate
Barium Nitrate	Hydrofluoric Acid up to 40%	Sodium Chloride
Barium Sulfate	Hydrogen Sulfide	Sodium Hydroxide
Benzene	Isopropyl Alcohol	Sodium Meta Silicate up to 5%
Boric Acid	Jet Fuel	Sodium Nitrate
Borax		Sodium Sulfate
Butyl Alcohol	Linseed Oil	Sodium Thiosulfate up to 5%
Cadmium Chloride	Lubricating Oil	Stannic Chloride
Cadmium Nitrate	Magnesium Carbonate	Sulfur
Cadmium Sulfate	Magnesium Chloride	Sulfuric Acid up to 60%
Calcium Carbonate	Magnesium Hydroxide	Synthetic Sea Fuel (60% Naphtha,
Calcium Chloride	Magnesium Nitrate	20% Toluene, 15% Xylene,
Calcium Hydroxide	Magnesium Sulfate	5% Benzene)
Calcium Nitrate		Synthetic Silage
Calcium Sulfate	Mercuric Chloride	Tetrapropylene
Calcium Disulfide	Methanol (softened)	Toluene
Carbon Tetrachloride	MIBK (Methyl Isobutyl Ketone)	
Caustic Potash	Mineral Oil	Triethylene Glycol
Caustic Soda	Mineral Spirits	Trisodium Phosphate
Chlorine 2%	Molasses	Turpentine
Citric Acid up to 25%	Motor Oil	Undecanol
Copper Chloride	Muriatic Acid	Urea
Copper Nitrate	Naphtha	Urine
Copper Sulfate	Nickel Chloride	Vinegar
Crude Oil	Nickel Nitrate	Water
Cyclohexane	Nickel Sulfate	Chlorinated
Cyclohexene	Nitric Acid up to 30%	Demineralized
Cyclopentane	Nonane	Distilled
Detergent	Octane	Salt
Diesel Fuel	Oxalic Acid	Sea
Diethylene Glycol	Pentane	Xylol
Dipropylene Glycol	Perchloroethylene	Zinc Chloride
Ethanol (softened)	Phosphoric Acid up to 50%	Zinc Nitrate
Ethylbenzene	Phosphorous Trichloride	Zinc Sulfate
Ethylene Glycol	Potassium Aluminum Sulfate	10-10-10 Fertilizer, Saturated
Ferric Chloride up to 50%	Potassium Bicarbonate	

\*\*Tests conducted for two years. No effect unless otherwise stated.



# 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134

---

**Storage** In a cool dry location less than 80°F (27°C)

---

**Shelf-Life** 18 months from date of manufacture

---

**Availability** For ordering, technical, product information, or the Safety Data Sheet, call:  
Phone: 800-722-6721  
Fax: 877-601-1305

---

3M and Scotchkote are trademarks of the 3M Company.

---

**Important Notice** All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product, which are not contained in 3M's current publications, or any contrary statements contained on your purchase order, shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

---

**Warranty; Limited Remedy; Limited Liability** Because conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties: This product will conform to 3M's published product specifications and be free from defects in material and manufacture on the date of your purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective upon your receipt, your exclusive remedy shall be, at 3M's option, to replace the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any direct, indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

---



**Electrical Markets Division**  
6801 River Place Blvd.  
Austin, TX 78726-9000  
800.722.6721  
[www.3M.com/corrosion](http://www.3M.com/corrosion)

Please recycle  
© 3M 2016 All rights reserved  
78-8141-8528-2 Rev A