



# ECCOCOAT EC210 A/B

## General Purpose, Oxide Filled Epoxy Coating

Key Feature:	Benefit:
<ul style="list-style-type: none"> <li>General purpose</li> </ul>	<ul style="list-style-type: none"> <li>Used in a wide variety of coating applications</li> </ul>
<ul style="list-style-type: none"> <li>Excellent electrical properties</li> </ul>	<ul style="list-style-type: none"> <li>Reliable electronic assemblies</li> </ul>
<ul style="list-style-type: none"> <li>Excellent adhesion</li> </ul>	<ul style="list-style-type: none"> <li>Bonds well to plastics, metals, wood, glass, and ceramics</li> </ul>

**Product Description:**

ECCOCOAT EC210 A/B is a general purpose, solvent containing, oxide filled, epoxy surface coating. It has outstanding resistance to moisture, chemical attack, and weathering. ECCOCOAT EC210 A/B has excellent adhesion to most materials and can be applied by brush or spray.

**Applications:**

ECCOCOAT EC210 A/B is designed for coating electrical and electronic components and equipment, concrete, brick, metal, wood, and plastics.

**Instructions For Use:**

Thoroughly read the information concerning health and safety contained in this bulletin before using. Observe all precautionary statements that appear on the product label and/or contained in individual Material Safety Data Sheets (MSDS).

Some filler settling is common during shipping and storage. For this reason, it is recommended that the contents of the shipping container be thoroughly mixed prior to use. Power mixing is preferred to ensure a homogeneous product.

Accurately weigh resin and hardener into a clean container in the recommended ratio. Weighing apparatus having an accuracy in proportion to the amounts being weighed should be used.

Blend components by hand, using a kneading motion, for 2-3 minutes. Scrape the bottom and sides of the mixing container frequently to produce a uniform mixture.

Once mixed, ECCOCOAT EC210 A/B should be used within 4 hours. It should be stirred from time to time to keep the solid material suspended.

For porous surfaces, two coats may have to be applied. Allow at least 4 hours between application of coats.

**Properties of Material As Supplied:**

Property	Test Method	Unit	Value - Part A	Value - Part B
Chemical Type			Epoxy	Solvent containing amine
Appearance	Visual		Opaque liquid	Clear liquid
Density	ASTM-D-792	g/cm <sup>3</sup>	1.70	0.98
Brookfield Viscosity	ASTM-D-2393	Pa.s cP	45 45,000	0.005 5
Flash Point	ASTM D 93	°C °F		5 40

**Properties of Material As Mixed:**

Property	Test Method	Unit	Value
Mix Ratio - Amount of Part B per 100 parts of Part A		By Weight	35
		By Volume	55
Working Life (100 g @ 25°C)	ERF 13-70	hours	4
Density	ASTM-D-792	g/cm <sup>3</sup>	1.40
Brookfield Viscosity	ASTM-D-2393	Pa.s cP	1.0 1,000

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**Cure Schedule:**

Cure at any one of the recommended cure schedules. For optimum performance, follow the initial cure with a post cure of 2 - 4 hours at the highest expected use temperature. Alternate cure schedules may also be possible. Contact your P<sup>^</sup> \ ^ | Ö [ ! ] [ ! a a } Technical Representative for further information.

ECCOCOAT EC210 A/B contains solvent which must evaporate before heat cure to avoid blistering.

Temperature	Cure Time
°C	Time (hours)
25	24
77	1

**Properties of Material After Application:**

Property	Test Method	Unit	Value
Hardness	ASTM-D-2240	Shore D	88
Temperature Range of Use		°C	-55 to +150
Dielectric Strength	ASTM-D-149	kV/mm V/mil	16.5 420
Dielectric Constant @ 60 Hz	ASTM-D-150	-	4.6
Dissipation Factor @ 60 Hz	ASTM-D-150	-	0.02
Volume Resistivity @ 25°C	ASTM-D-257	Ohm-cm	10 <sup>13</sup>

**Storage and Handling:**

The shelf life of ECCOCOAT EC 210 Parts A and B are 12 months at 25°C. For best results, store in original, tightly covered containers. Storage in cool, clean and dry areas is recommended. Usable shelf life may vary depending on method of application and storage conditions.

**Health and Safety:**

The ECCOCOAT EC 210 Part A, like most epoxy compounds, possesses the ability to cause skin and eye irritation upon contact. Certain individuals may also develop an allergic reaction after exposure (skin contact, inhalation of vapors, etc.) which may manifest itself in a number of ways including skin rashes and an itching sensation. Handling this product at elevated temperatures may also generate vapors irritating to the respiratory system.

The ECCOCOAT EC 210 Part B is considered a flammable and corrosive material. Direct contact with unprotected skin or eyes can cause severe burns. Certain individuals may also develop an allergic skin or respiratory reaction after exposure (skin contact, skin absorption, inhalation of vapors, etc.) which may manifest itself in a number of ways including skin rashes, itching sensation and breathing difficulty. This product may also generate vapors irritating to the respiratory system. This product should be kept away

from all flame, spark and heat sources, and must be used only with proper exhaust ventilation. Overexposure to vapors may result in central nervous system effects; symptoms may include headache, dizziness, and in extreme cases, loss of consciousness.

Good industrial hygiene, ventilation and safety practices must be followed when handling this product. Proper eye protection and appropriate chemical resistant clothing should be worn to prevent direct contact and possible skin absorption. Consult the Material Safety Data Sheet (MSDS) for detailed recommendations on the use of engineering controls, flammability precautions and personal protective equipment.

*This information is only a brief summary of the available safety and health data. Thoroughly review the MSDS for more complete information before using this product.*

**Attention Specification Writers:**

The values contained herein are considered typical properties only and are not intended to be used as specification limits. For assistance in preparing specifications, please contact P<sup>^</sup> \ ^ | Ö [ ! ] [ ! a a } Quality Assurance for further details.



**Note**

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Americas  
+1.888.943.6535

Europe  
+44.1442.278.000

Asia  
+86.21.3898.4800



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