



## ABATRON, INC.

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## ABOCOAT 8204-15 SYSTEMS

TDS 820825

Dielectric Coating for High for Chemical, Solvent and Thermal Resistance  
Highly crosslinked 2-component Epoxy system.

Designed for applications requiring superior resistance to most solvents and chemicals used in treating, cleaning, degreasing electric and electronic components. Excellent for metals and other surfaces in highly corrosive and high-temperature environments.

Due to its special chemical structure, this epoxy compound offers very high rigidity and prolonged resistance to 208°C (406°F).

### TYPICAL TESTED VALUES:

<u>ABOCOAT 8204-15</u>	Resin. Light-blue liquid. 9.9 Lbs/Gallon. Flammable. Viscosity (Brookfield, spindle #2) @ 24°C: 7200cps/1.5rpm; 4200cps/3rpm; 2400cps/6rpm.
<u>ABOCURE 8204-15</u>	Converter. Clear amber liquid. 7.8 Lb/Gallon. Flammable. Viscosity: (Brookfield, spindle #1) @ 24°C: 40cps/1.5rpm; 30cps/2rpm; 20cps/6rpm.
<u>BLEND RATIO:</u>	ABOCOAT 8204-15: 100 pbw (parts by weight). ABOCURE 8204-15: 50 pbw.
<u>BLEND PROPERTIES:</u>	Light-blue liquid. 8.9 Lbs/Gallon. 48% solids. Flammable. Viscosity (Brookfield, spindle #2) @ 24°C: 500cps/1.5rpm; 300cps/3rpm; 200cps/6rpm.
<u>Pot life (500 gms):</u>	40 hours @ 24°C.
<u>Hardening:</u>	37 minutes @ 93°C, or 23 minutes @ 120°C, or 13 minutes @ 150°C.
<u>Cure:</u>	30-90 minutes, or longer, @ 100-160°C.
<u>Postcure:</u>	Postcure of 2 hours @ 160-175°C will maximize properties.
<u>Thinner:</u>	<u>ABOSOLV 4204-14.</u>
<u>Clear version:</u>	<u>ABOCOAT/ABOCURE 8204-13:</u> Same properties as 8204-15, but 1/1 ratio.
<u>APPLICATION:</u>	By spraygun, brush, roller, or by dipping.

### CHARACTERISTICS:

- The high-requirements protective coating and corrosion inhibitor for most surfaces. In metal applications, it not only protects metal against corrosion, but it prevents corrosion's spreading when painted over tightly bound rust.
- Designed to yield films as thin as 1-4 mils (0.03-0.1 mm) each coating layer. Thicker single-layers (from 5 mils up to several inches thick), for resurfacing, filling depressions, cracks, etc., are obtained with ABOCAST solventless epoxies.
- Superior salt-spray resistance in marine applications

<continued>

TDS 820825 (continued)

- Outstanding alkali resistance, which is essential against harsh cleaners and chemicals, and against alkalis generated electrolytically under coatings.
- Superior solvent resistance, as needed in many degreasing and surface preparation procedures.
- High organic and inorganic acid resistance, necessary in many processes.
- General chemical resistance. Unaffected by corrosive industrial and marine environments, atmospheric conditions, water, most fuels, detergents, oils and greases.
- Unmatched interior and exterior durability. No cracking, checking or noticeable corrosion were present in tests of exposure to extreme temperatures.
- Protective coating of metal furniture or components against exposure to water and harsh chemicals in laboratories, plants, hospitals and other critical environments.
- Primerless coating for difficult surfaces in corrosive and very hot environments.
- Superior Primer or First-Coat before acid-proof paints, patching compounds, or high-grade solventless epoxies on difficult surfaces, to insure best (A) wetting, (B) adhesion, (C) film continuity and durability.
- Available also clear (8204-13 System) and in other colors: BLACK, GREY, WHITE, BUFF, RED, BROWN, GREEN, YELLOW. Custom colors are also available.

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INSTRUCTIONS FOR USE:

**SURFACE PREPARATION:** Dirty, dusty, greasy surfaces must be thoroughly cleaned to avoid adhesion failure. Sandblasting or sanding and roughening after washing and degreasing is recommended where possible. In all cases, surfaces must be chemically clean and sound.

**RESIN/CONVERTER MIXING** must be thorough, or failure areas will result. A rigid stick, paddle or a power mixer are all adequate if used properly.

**POT LIFE** is the time the ABOCOAT/ABOCURE blend remains workable, before hardening.

**APPLICATION** is simple and requires no specialized tools or skills. Paint rollers, spray guns, brushes, dipping tanks are all suitable for different purposes.

**HEAT CURE** is necessary in order to complete the reaction to develop the exceptional chemical and thermal resistance of the 8204-15 System.

**MULTIPLE COATS** are advisable to build up the desired thickness and to insure that pinholes are covered. 2 or 3 coats are sufficient in most cases. Each subsequent coat should be applied after the previous one has started to harden.

**SAFETY PRECAUTIONS.** Like any solvent-containing system, the ABOCOAT/ABOCURE 8204-15 system must be applied with all normal precautions against flammability, breathing of vapors and contact with skin and eyes.

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The above information is the result of accurate laboratory and field tests. However, no guarantee, expressed or implied, is given, as uses and applications are beyond our control. The user is urged to test and adapt the above data in his own conditions and environment previous to product adoption. Specifications may be subject to state-of-the-art changes.

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