



TECHNICAL DATA SHEET

Noelle Industries, Inc.

Adhesives • Coatings • Conductives • Encapsulants

NOELLE 807-10

A One Component Epoxy Adhesive / Coating

Description:

Noelle 807-10 is a clear one component, heat cured, solvent based, thermosetting epoxy adhesive and coating material. Specific use includes metal-to-metal bonding, coating of electric circuit boards, sub assemblies, motor and stator components.

Advantages:

Noelle 807-10 cures to a clear, extremely durable film that features premium electrical properties. This material offers exceptionally high shear and peel strength properties. Thermal stability is sufficient to withstand short-term immersion in liquid solder. It features excellent resistance to dilute acids, bases, salt spray, detergents and cleaning solutions. This material is also heat and moisture, resistant. This epoxy adhesive exhibits some flexibility and also exhibits class F (155°C) continuous operating service. Noelle 807-10 is a one part formation that does not require premixing.

Applications:

Noelle 807-10 can be used as a conformal coating for circuit boards and other components that require a high degree of corrosion protection in a clear coating. Recommended for other applications where a general-purpose coating will not satisfy the corrosion requirements. Noelle 807-10 can be brushed on, dip coated, roll coated, knife coated or spray coated.

Physical Properties:

Color:	Clear
Pounds per Gallon	7.40
Specific Gravity	0.84
Viscosity	45 - 85 cP
Solvents	Methyl Ethyl Ketone (MEK) Tetrahydrofuran (THF)

(Solvents can be used to reduce viscosity or to adjust drying rate.). For a faster drying rate dilute with Methyl Ethyl Ketone (MEK). For a slower drying rate dilute with Tetrahydrofuran (THF). Blending of fast (MEK) and slow (THF) solvents will yield intermediate drying rates.

Shelf Life: (Sealed container)

Six Months @ 20°C

Cure Schedules

Forced hot air or radiant heat is necessary to accomplish cure. Minimum cure temperature is ~ 165°C for cure to be initiated. A cure temperature of **177°C for 30 – 60 minutes** under a pressure of 75 psi is suggested for optimum results. Experimentation with lower pressure and/or higher temperatures for shorter times can optimize cures.

All values reported above are typical values, and are reported as a means of reference. Individual testing should be done to determine actual results, tested at specific conditions.

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