



CC3-208 Clear

Transparent Epoxy Coating Resin

CC3-208 is a general purpose transparent epoxy coating which can be easily applied by brush, dip or spray. It offers high resistance to water and chemical attack. For continuous high heat or corrosive chemical exposure, Ancamine Z curing agent is recommended, but for most applications requiring room temperature cure, H-1 Hardener is ideal. Build up of 2 – 5 mils is typical for single applications. Multiple applications can be achieved without loss of adhesion between coats. CC3-208 contains solvents which evaporate during cure.

Specifications:

UNCURED

Specific Gravity at 25° C (uncatalyzed)	1.0 - 1.1
Viscosity cps at 25° C (uncatalyzed) 3-50-20	150 - 250
Standard Color	Transparent
Shelf Life	12 months

PHYSICAL PROPERTIES

Tensile Strength @ 25° C psi	8,000
Tensile Elongation: % @ yield	8 to 10
Izod Impact: ft lbs/in of notch	1.2
Water Absorption: %, 10 days @ 25° C	0.39
Linear Shrinkage: in/in	0.01
Service Temperature: °C continuous	-65 to +100
Service Temperature: °C intermittent	-100 to +150

THERMAL PROPERTIES

Thermal Conductivity: W/mK	0.21
Thermal Resistance: °C in/watt	182
Coefficient of Thermal Expansion: in/in/°C x 10 ⁻⁶	50

ELECTRICAL PROPERTIES

Volume Resistivity @ 25° C, ohm-cm	10 ¹³
Dielectric Constant @ 25° C, 100 KC	4.1
Dissipation Factor @ 25° C, 100KC	0.03
Dielectric Strength: volts/mil	400 - 500

(Typical properties when cured with H-1 Hardener for 3 hrs. @ 65° C)



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Cure Schedule:

H-1 Hardener: Mix ratio of 11 parts H-1 Hardener per 100 parts CC3-208 by weight.
(ie. 11 grams of H-1 Hardener and 100 grams of CC3-208 for a total mix of 111 grams)
Cure can be achieved at room temperature within 6 to 24 hours. A heat cure of 2 to 4 hours at 65° C is recommended.

Mixing Instructions:

Stir the CC3-208 thoroughly in its shipping container to insure a uniform consistency. Weigh out the desired amount of resin in a clean container. Add the proper amount of hardener accurately by weight in the proper proportion as specified above. Mix thoroughly.

Apply by brush, dip or spray to a clean surface. If more than one coat is applied, allow the resin to gel between coats.

Use in a well ventilated area and avoid breathing fumes and avoid contact with eyes and skin.

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