



CC3-105

Unfilled, Low Viscosity, General Purpose Potting Resin

CC3-105 exhibits a wide variety of excellent features found only in the highest quality epoxy resins. It is a low viscosity, unfilled, resilient, transparent epoxy which can be cured at room temperature or with heat.

SUGGESTED APPLICATIONS:

Epoxy Glass Lamination:	excellent wetting out properties
Thin Glue-Line Bonding:	no bulky filler to occupy space
Void-Free, See Through Castings:	low viscosity, air released rapidly

ELECTRICAL AND PHYSICAL PROPERTIES:

Specific Gravity at 25° C: (uncatalyzed)	1.05
Viscosity cps at 25° C: (uncatalyzed)	500 - 700
Thermal Conductivity: W/mK	0.2
Flexural Strength: psi	9,000
Izod Impact: ft lbs/in of notch	0.5
Water Absorption: %, 7 days @ 25° C	0.13
Volume Resistivity @ 25° C, ohm-cm	10 ¹³
Dielectric Strength, volts/mil	380
Bond Shear Strength: 1 in overlap	2,000
Service Temperature, °C continuous	-55 to +150
Standard Color	Clear

(Typical properties when cured with H-1 Hardener)

CHOICE OF HARDENERS:

H-1 Hardener:	Rigid, good dimensional stability, fast cure.
H-18 Hardener:	Resilient, excellent mechanical and thermal shock, low viscosity, good air release, fast cure.
H-10LV Hardener:	Variable hardness, excellent impact properties, long pot life



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HARDENER	PARTS BY WEIGHT PER 100 PARTS OF RESIN		POT LIFE	CURE TIME	CURE TIME	CURE TIME
			100 GRAM 25°C (77°F)	25' C (77°F)	65' C (149' F)	125 ' C (257 ' F)
H-1 Hardener	14		30 mins.	6 hrs.	30 mins.	15 mins.
H-18 Hardener	29.0		45 mins.	24 hrs.	2 hrs.	30 mins.
H-10LV Hardener	rigid	33	3 hrs.	24 hrs.	3 hrs.	- - -
H-10LV Hardener	semi-flex	83	3 hrs.	24 hrs.	3 hrs.	- - -
H-10LV Hardener	flexible	133	3 hrs.	24 hrs.	3 hrs.	- - -

ROOM TEMPERATURE CURE:

- H-1 Hardener: Offers a working time of 30 minutes. Cures in 6 hours at 25' C or 30 minutes at 65' C. Produces a tough, rigid resin with good dimensional stability. Do not heat cure if the mass exceeds 100 grams.
- H-18 Hardener: Offers a working time of 45 minutes. Cures in 24 hours at 25' C or 2 hours at 65' C. Produces a tough, resilient resin with good mechanical and thermal shock properties.
- H-10LV Hardener: Offers a working time of 3 hours. Cures in 24 hours at 25' C or 3 hours at 65' C. Produces a variable hardness resin with excellent impact properties.

MIXING INSTRUCTIONS:

Weigh out the desired amount of resin in a clean container. Add the hardener accurately by weight in the proper proportion as specified above. (ie. 14 grams of H-1 Hardener and 100 grams of CC3-105 for a total mix of 114 grams) Mix thoroughly. Use in a well ventilated area and avoid contact with eyes and skin.

* The data herein is offered as a guide and does not constitute a specification. Cast Coat, Inc. makes no warranty express or implied as to the accuracy or completeness. Each user should evaluate the material to determine its suitability for his/her particular purpose. User assumes all risk and liability resulting from its use.