

# 51-Cure

## Product Description:

51-Cure is an epoxy system for people who are looking for the performance of popular epoxy systems that mix at a 5 parts resin to 1 part hardener ratio. Available with either a fast or a slow curing agent, 51-Cure can be used in a wide range of temperatures. It cures to form high-strength bonds or coatings with excellent resistance to moisture.

## Product Uses:

Use 51-Cure to wet out fiberglass cloth and other reinforcing fibers. It is also a superior adhesive, bonding to composite, metals and most woods. Used with our powders, 51-Cure will fill gaps and can be sanded and shaped after it cures

### 51-Cure Fast Hardener

51-Cure Fast Hardener is recommended for the majority of applications. At lower temperatures it produces a rapid cure achieving its specified physical properties at room temperature. 51-Cure Fast Hardener is designed to be mixed with 51-Cure Resin at a 5 parts resin to 1 part hardener ratio.

### 51-Cure Slow Hardener

51-Cure Slow Hardener is the curing agent to choose at higher temperatures when additional working time is needed. 51-Cure Slow Hardener is designed to be mixed with 51-Cure Resin at a 5 parts resin to 1 part hardener ratio.

### 51-Cure #4 3:1 No Blush Hardener

Use with 51-Cure Resin at 3 parts resin to 1 part hardener ratio. Use No Blush Hardener when a very clear finish is required. Will work when temperatures are cool and conditions are damp without clouding.

## Technical Notes:

Mix Ratio .....	5:1 by volume(3:1 w/ #4 No Blush Hardener)
Total Solids .....	100%
Viscosity .....	Medium liquid
Color .....	Clear, Pale Amber
Application Temperature Range .....	4°C to 40°C (40°F to 104°F.)
Tensile Strength .....	7600 psi
Compressive Strength .....	13000 psi
Elongation .....	6.0
Coverage .....	20 sq ft/L as a coating
Service Temperature Range .....	-20°C to 72°C (-4°F to 162°F)
Resin: Sizes Available .....	Quart / .98 Gallon / 4.35 Gallon / 51.35 Gallon
Hardeners: Sizes Available .....	.44 Pint / .86 Quart / .94 Gallon / 11.31 Gallon
#4 No Blush Hardener .....	.66 Pint / 1.32 Quart

## Time Table:

For a 450 ml mixture  
(with #1 Fast Hardener)

TEMPERATURE		POT LIFE	CURE TIME (90%)
Deg.C	Deg.F		
4°	40°	50 min	4 Days
10°	50°	23 min	2 Days
20°	68°	12 min	1 Day
30°	86°	6 min	12 hours

(with #2 Slow Hardener)

Deg.C	Deg.F	POT LIFE	CURE TIME (90%)
4°	40°	50 min	N/A
10°	50°	50 min	3 Days
20°	68°	25 min	3 Days
30°	86°	12 min	1 Day

(with #4 No Blush 3:1  
Hardener)

Deg.C	Deg.F	POT LIFE	CURE TIME (90%)
20°	68°	25 min	4 Days