

Technical Leaflet

Epoxy Hardener G-92

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Epoxy Hardener G-92 is a catalysed phenolic curing agent for use with epoxy and epoxy novolac resins. Powder coatings made with Epoxy Hardener G-92 will exhibit the excellent chemical resistance and mechanical properties for which phenolic epoxy coatings are noted. Epoxy Hardener G-92 allows the formulator the versatility of using differing cure cycles while maintaining performance properties. For example, powder coatings made with Epoxy Hardener G-92 can be "snap" cured in 2 minutes at 200 °C or low temperature cured in 20 minutes at 120 °C while maintaining both mechanical (160 reverse inch pounds impact) and chemical resistance (100+ MEK double rubs) properties.

Technical Data:

Appearance	granulate
Softening point	80 - 100 °C

Application and properties:

Epoxy Hardner G-92 is intended for high gloss decorative powder coatings with smooth surface appearance as well as for corrosion protection applications. A major advantage is the ability to cure at low temperature. Low temperature curing systems for energy saving coating processes or for heat sensitive substrates could then be easily formulated with Epoxy Hardner G-92.

Recommended dosage levels of Epoxy Hardener G-92 is 15 to 25% of the binder with a traditional type 3 epoxy.

Suggested formulation	Weight %
Epoxy Resin (E.E.W. 650-850)	58.2
Epoxy Hardener G-92	10.3
Resiflow PV 88	1.0
Benzoin	0.5
Titanium Dioxide	30.0

Suggested curing conditions

Fast Curing	2 minutes @ 200 °C
Medium Fast Cure	5 minutes @ 160 °C
Low Temperature Cure	20 minutes @ 120 °C



Epoxy Hardener G-92

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Film properties

Thickness μm

55

Impact Indirect

160.0

Impact Direct

160.0

Pencil Hardness

3H

60° Gloss

97

MEK Double Rubs

100 +