



connora

ReRez® Epoxy Resin E1903 with ReRez® R1103 Curing Agent

RECYCLABLE EPOXY SYSTEM FOR FAST CURING AT AMBIENT TEMPERATURES

Applications

ReRez® Epoxy with ReRez® R1103 Hardener is specifically formulated for ambient temperature, fast curing, wet layup laminations, and coatings, such as in rapid prototyping, surfboard manufacturing, or marine and household repair.

WHY CHOOSE REREZ®

Zero-Landfill Manufacturing:

• Composite manufacturing waste can be recycled, and re-integrated back into the composites supply chain. Reduce landfill costs, and improve product margins.

Create Downstream Value:

• Connora Recycling uses a low energy, solution-based process that allows both the resin and fiber reinforcements to be reclaimed in a high quality, virgin-like state, preserving performance and value.

Cradle-To-Cradle Solution:

• Composite products made with ReRez® are fully recyclable through Connora Technologies.

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Physical Properties

ReRez® R1103 Hardener

Viscosity (Brookfield, 25 °C)	50cPs ± 10cPs
Formulation with ReRez® Epoxy Resin E1903	
Parts amine / 100 parts Epoxy resin (by weight)	36.2
Mixed Viscosity (5 min; Brookfield, 25 °C)	700-800cPs
Pot life (100 g mass, 68-72 °C)	22 - 30cPs
Thin film set time (68-72 °F)	2-3 hours
Tack free time (68-72 °F)	4-5 hours
Through cure/ Sandability (68-72 °F)	Overnight, >16 hours

Recommended Cure Cycles

The suggested curing temperature range for ReRez® Epoxy system is between 20-60 oC. For optimal mechanical properties elevated temperature curing or 'post curing' is recommended.

Safety and Handling

ReRez® hardeners are amine derived curing agents, as such they should be treated as a corrosive and an inhalation hazard. All persons who use, store, or transport these materials should properly understand the handling precautions and recommendations as stated in the MSDS.

Industrial Recycling

Recycling of composite waste is performed at Connora Technologies using a low energy, solution-based process. Outputs of the recycling process are an epoxy thermoplastic and all constituent components are recovered in a near virgin state, including reinforcements. For recycling of manufacturing waste, please contact Connora Technologies.

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