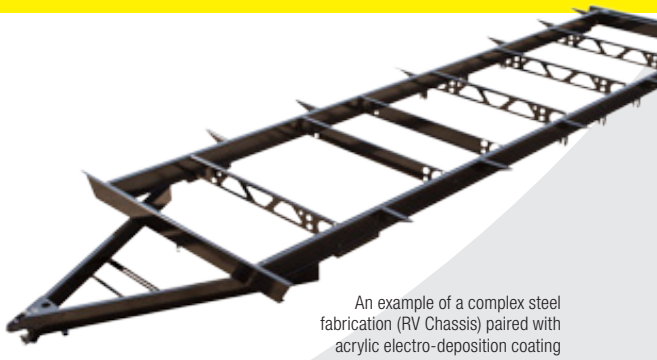
E-Coating Technologies

LIPPERT COMPONENTS

Electro-deposition Coating

- Offers exceptional coating capabilities for complex products not well suited for spray applications
- System capacity of 6,000 lbs per load bar - 12 load bars per hour
- 35,000 gallon processing capacity for both cathodic acrylic (UV resistant / 750 hour salt spray and cathodic epoxy (1,000 hour salt spray protection) meeting U.S. military specification MIL-P-53084
- Operating out of a 260,000-square-foot facility, one of the largest in North America
- Can accommodate parts 4 ft. wide, 8.5 ft. deep and 50 ft. long
- 8-stage pretreatment system, including full immersion zinc phosphate and non-chrome sealer, is among the most tightly controlled in the industry meeting U.S. military specification TTC-490E Type 1 for pretreatment

Flexible Product Coating Solutions & Services



An example of a complex steel fabrication (RV Chassis) paired with acrylic electro-deposition coating

lippertcomponents.com

699337-EASS-10/17-REV1

E-Coat Process Map

LIPPERT COMPONENTS

PRETREAT

01. HEATED ALKALINE SPRAY
02. HEATED ALKALINE SUBMERSION

Preparation/ Cleaning

03. CITY WATER RINSE

Preps metal surface for formation of polycrystalline coating

04. CONDITIONER

05. HEATED ZINC PHOSPHATE

Converts metal surface to polycrystalline coating for improved paint adhesion and corrosion protection

06. CITY WATER RINSE

Increases corrosion resistance of metal surface

07. SEALER

08. REVERSE OSMOSIS RINSE

09. STORAGE TANK

ACRYLIC APPLICATION

10. ACRYLIC SUBMERSION

Acrylic - Coating Characteristics: Top Coat (UV Resistant

11. PERMEATE SPRAY
12. PERMEATE SUBMERSION
13. PERMEATE SUBMERSION

14. STORAGE TANK

EPOXY APPLICATION

Epoxy - Coating Characteristic: Primer Coat (Non-UV Resistant)

15. EPOXY SUBMERSION
16. PERMEATE SPRAY
17. PERMEATE SUBMERSION

After Tank 18: 390˚ - 400˚ Oven/Cure

18. STORAGE TANK

TOTAL PROCESS TIME: 4-4.5 HOURS