

# ELVACITE®

ACRYLIC RESINS

## Elvacite® 4349

### Acrylic Resin for Improved Metal Adhesion

#### Introduction

Elvacite® 4349 is a solid bead methacrylate copolymer intended for use in solvent based coating systems where improved adhesion to difficult metals is important. Elvacite® 4349 exhibits excellent outdoor durability. The resin may be used in a variety of metal coatings applications such as transportation finishes in automotive, container and other marine coatings, and a variety of brass and aluminum coating applications.

#### Typical Properties

Appearance	Solid beads
Tg	65°C
Molecular Weight (Mw)	60,000
Acid Number	3.5

#### Metal Adhesion Performance in Clear Coatings<sup>1</sup>

	Adhesion Performance <sup>2</sup>	Flexibility <sup>3</sup>
Cold-Rolled Steel	5 (no failure)	Pass
Galvanized Steel	5	Pass
Aluminum 2024	5	Pass
Aluminum 5052	5	Pass
Zinc	5	Pass
Tin	5	Pass
Copper	5	Pass
Brass	5	Pass

<sup>1</sup> Coatings was formulated at 40% solids in toluene without external plasticizer. The adhesion test was carried out after the film being dried at room temperature for one week.

<sup>2</sup> Adhesion is rated on a 0 (poor, >65% coating area removed) to 5 (excellent, no failure) scale as described in ASTM D3359.

<sup>3</sup> Flexibility is determined by the degree of cracking at bend over after drying for one and four weeks at ambient temperature.

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