

# U-Cure 9216

## 二官能团聚酯丙烯酸酯树脂

Difunctional Polyester Acrylate Resin

KASTER

Innovation in Polymer Chemistry  
昆山卡斯特高分子材料有限公司

### 技术资料表 Technical Data Sheet (TDS)

## 1 产品介绍 Product Introduction

U-Cure 9216 是一款二官能团聚酯丙烯酸酯树脂。该产品旨在提供卓越的基材附着力与漆膜坚韧性。其分子结构具有低粘度和良好的润湿性，能够有效润湿各种难粘基材，并具备优异的流平性能及抗油性能，是高性能光固化涂料的核心组分。

U-Cure 9216 is a difunctional polyester acrylate resin designed to provide excellent adhesion and toughness. Its structural features offer low viscosity, superior wetting properties on various substrates, exceptional leveling, and outstanding oil resistance, making it a key component for high-performance UV-curable coatings.

## 2 核心特性 Key Product Features

- 附着力优异 (Excellent Adhesion)**  
对多种塑胶及难粘基材展现出极强的抓地力。  
Shows strong anchorage on various plastic and difficult-to-bond substrates.
- 低粘度与流平性 (Low Viscosity & Leveling)**  
较低的施工粘度，赋予涂层优异的流平效果，减少表面缺陷。  
Low application viscosity, granting excellent leveling and reducing surface defects.
- 坚韧性佳 (Superior Toughness)**  
兼顾高硬度与良好的抗冲击/折弯柔韧性。  
Balances high hardness with good impact and bending flexibility.
- 反应速度快 (Fast Curing Speed)**  
在紫外光照射下具有极高的光敏交联效率。  
Features high photosynthetic cross-linking efficiency under UV light.

## 3 物理及力学特性 Physical Properties

性能参数 Properties	典型指标 Typical Value	测试标准 Standard
外观 Appearance	透明澄清液体 / Clear Liquid	Visual
色数 Color (Gardner)	$\leq 1$	ASTM D1544
粘度 Viscosity (cps @ 25°C)	1,300 - 2,400	ASTM D2196
官能度 Functionality	2	Theoretical
固含量 Solid Content (%)	100%	GB/T 1725
酸值 Acid Value (mgKOH/g)	$\leq 5$	GB/T 6743

## 4 建议应用 Product Applications

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- **塑胶漆 (Plastic Coatings)**

得益于优异的流平性，可获得高平整度表面，提升 3C 产品防护性能。

*Benefit from superior leveling to achieve high-smoothness surfaces on electronic devices.*

- **PVC 地板 (PVC Flooring)**

低粘度利于大面积辊涂施工，作为耐磨、抗刮顶涂层的关键原料。

*Low viscosity facilitates large-scale roller coating as a wear-resistant resin.*

- **真空电镀涂料 (Vacuum Metallization Coatings)**

用于真空电镀工艺，显著增强层间附着力并提供平整的镜面效果。

*Used in vacuum plating to enhance adhesion and provide a smooth mirror effect.*

## 5 常见问题解答 Q&A

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**Q:** 低粘度特性对加工有何帮助？ (How does low viscosity help in processing?)

**A:** 它不仅降低了对稀释剂的需求，更提升了配方的润湿和流平能力，使复杂基材获得均匀涂层。

*It reduces the need for diluents and improves wetting/leveling, ensuring uniform coating on complex substrates.*

## 6 储存与安全 Storage and Safety

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- **储存 (Storage):** 应存放于密封容器中，置于阴暗、通风环境 (-10°C 至 35°C)，有效期至少 12 个月。

*Store in sealed containers in a dark, ventilated environment (-10°C to 35°C). Stable for at least 12 months.*

- **包装 (Packaging):** 标准包装为 200kg/桶。

*Standard packaging is 200kg/drum.*

- **安全 (Safety):** 本品对眼睛有刺激性，对水生生物有毒。使用前请仔细阅读安全数据表 (SDS)。

*Irritating to eyes and toxic to aquatic life. Read SDS carefully before use.*

## 联系方式 Contact Information

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