U-Cure 9313

硅氟丙烯酯树脂 / Silicone-Fluorine Acrylate Resin

High-performance functional UV resin for matte and soft-touch systems

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 9313 是一种高性能改性硅氟丙烯酯树脂。该树脂专门针对哑光涂料体系设计，具有卓越的消光协同性，只需添加少量消光粉或消光蜡浆即可轻松实现全哑效果。其分子结构赋予了涂层卓越的表面物理性能，是制备极致哑光及肤感涂料的核心功能树脂。

U-Cure 9313 is a high-performance modified silicone-fluorine acrylate resin specially designed for matte coating systems. It features excellent matting synergy, allowing for a full matte finish with only a small amount of matting agent or wax paste. Its molecular structure provides exceptional surface properties, making it an ideal functional resin for ultra-matte and skin-feel coatings.

2　物理及力学特性 Physical & Mechanical 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
粘度 Viscosity (mPa·s @ 60°C)	700 - 1,500	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	6	Theoretical
NCO 残存 NCO Content (%)	＜ 0.2%	Titration

3　核心特性 Key Product Features

- **优异的消光协同性 (Excellent Matting Synergy)**
  适用于各类哑光体系，添加极少量的消光剂即可达到稳定的全哑效果，保持漆膜通透度。
  Compatible with various matte systems, achieving a stable full matte finish with minimal matting agents while maintaining film clarity.
- **极致触感 (Exquisite Soft-Touch)**
  在哑光体系下能展现出更加细腻、干爽且高级的肤感体验。
  Delivers a more delicate, dry, and premium skin-feel experience in matte systems.
- **易清洁与耐污 (Easy-to-Clean & Stain Resistance)**
  即使在低光泽的全哑漆膜表面，依然保持极佳的抗记号笔及抗指纹性能。
  Maintains excellent marker and fingerprint resistance even on ultra-low gloss matte surfaces.
- **物理修复性 (Physical Repairability)**
  赋予哑光涂层良好的韧性，受轻微划伤后可通过简单处理恢复表面观感。
  Provides toughness to matte coatings, allowing surface restoration from minor scratches.

4 建议应用 Product Applications

- **全哑 UV 手感漆 (Full Matte UV Soft-Touch)**
  用于电子产品外壳，提供低光泽、高耐污的丝滑表面。
  Used for electronic casings, providing low-gloss, highly stain-resistant silky surfaces.
- **哑光肤感涂料 (Matte Skin-Feel Coatings)**
  高端橱柜、家具面板，追求极致全哑视觉与细腻触感的结合。
  High-end cabinets and furniture panels, pursuing the combination of ultra-matte visual and delicate touch.

5 常见问题解答 Q&A

Q: 在全哑体系中如何平衡消光效果与表面性能？ (How to balance matting effect and surface performance?)

A: *U-Cure 9313* 具有极强的消光协同能力。由于其自身能有效排列并辅助消光粉定位，您可以在减少消光粉用量的同时达到更低的光泽度，从而避免因消光粉过多导致的漆膜发白或抗刮伤性能下降。
U-Cure 9313 has strong matting synergy. It assists in the orientation of matting agents, allowing lower gloss with less dosage, thus avoiding film whitening or reduced scratch resistance caused by excessive fillers.

6 储存与安全 Storage and Safety

- **储存 (Storage)***:* 应存放在阴暗、干燥、通风的环境中，温度在 $-10°$C 至 $35°$C，保质期 *12* 个月。
  Store in a dark, dry, ventilated area at -10°C to 35°C; shelf life is 12 months.
- **安全 (Safety)***:* 刺激眼睛。对水生生物有毒。使用前请仔细阅读 *SDS*。
  Irritating to eyes. Toxic to aquatic life. Read SDS carefully before use.

联系方式 Contact Information

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