

# PP 素材向け耐サンスクリーン性

## 環境配慮型 1 液塗料

**ENVIRONMENT-FRIENDLY ANTI-SUNSCREEN RESISTANCE ONE COMPONENT PAINT  
FOR PP MATERIAL**

掛端 竜太

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### 要 旨

汎用樹脂の一つであるポリプロピレン（以下 PP）は結晶性が高くかつ極性が低い難付着素材であり、PP 向け塗料は PP への密着性と背反事項となる耐薬品性が劣る傾向にある。「エコネット PP-300」は高極性モノマーを用いたアクリル樹脂を主樹脂とし、セルロース系樹脂を用いて耐薬品性を向上させ、塩素化ポリオレフィン樹脂の配合により付着適性を広げている。これら三成分（樹脂）の配合バランスを最適化することで、PP 素材向け塗料としては、困難とされていた付着性と耐薬品性を両立し、かつ従来品と同等の発色性、作業性を有する塗料を開発したためここに報告する。

### Abstract

Polypropylene (PP) is a type of general-purpose polymer material. Its highly crystalline nature and low polarity makes it difficult for other substances to adhere to it, and paints designed for use on PP components tend to have inferior resistance to chemicals as a trade-off for their adhesion to PP. Econet PP-300 uses a high-polarity monomer-based acrylic resin as its main base resin, but employs cellulose-type resins to offer improved chemical resistance, and a composition of chlorinated polyolefins (CPOs) to enhance adhesion. This article reports how, by optimizing the compositional balance of these three ingredients, we have successfully developed a component paint for PP materials that achieves a balance of both adhesion and chemical resistance (which have been previously regarded as difficult to achieve) while at the same time maintaining similar chromogenic properties and workability to existing products.