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Abstract:

Novel Resins for High-performance and Environment-friendly Protective Metal Coatings

With sustainability in mind, Helios Resins R&D team developed novel resins which ensure the reduced impact of the coating industry on the environment, without compromising the properties of the high-performance protective metal coatings.

The reduction of VOC of the solvent-borne coatings was addressed by the development of high-solid and highly reactive ultra-high-solid hydroxy acrylic resins, for the implementation of top-performance 2K PUR coatings with low VOC at spraying viscosity.

Replacing organic solvents with water is also an important aspect when developing sustainable coating systems. Thus secondary-acrylic dispersion resin, intended for use as a polyol in 2K PUR water-based coatings with exceptional properties, was produced. Furthermore, hydrophobic styrene-acrylic dispersion in water was developed especially for the production of 1 K direct-to-metal water-based coating systems, which not only minimize the effect on the environment but also simplify the application process and reduce the application costs, while ensuring a high level of metal protection.

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