

A 2K Waterborne PU Technology success story: Success Attributed to "Water" in the Engineering Machinery Industry

Covestro and Sherwin-Williams collaborate with SANY Heavy Machinery to create opportunities for the future of waterborne coatings for the engineering machinery industry.



Successful Application of Waterborne Coatings in the Engineering Machinery Industry

Tremendous developments in engineering machinery in China in recent years have led to stricter requirements for environmental protection. As a result, when it comes to coating products, manufacturers of engineering machinery no longer limit their focus to requirements for advanced performance and appearance. Instead, they are starting to pay more attention to waterborne coating.

"China needs not only GDP but also a beautiful environment. Therefore, enterprises need to carry out their social responsibilities," said Yu Hongfu, President of SANY Heavy Machinery Co., Ltd., the leader of the domestic excavator market. This led SANY Heavy Machinery to start evaluating and testing low VOC waterborne coatings. At present, in its Kunshan Park, there are ten waterborne coating production lines which fully meet each of the performance criteria for solvent-borne coating.

As a long-term partner of SANY Heavy Machinery, Sherwin-Williams, a global leader in the coating industry, assisted Kunshan SANY to deploy a waterborne coating line in November of 2017, fulfilling scale production and successfully applying waterborne coatings in the engineering machinery industry. Engineering machinery and equipment are mainly operated in the open air, so they have strict requirements for corrosion resistance, appearance and finish gloss. Sherwin-Williams is engaged in the research and development of new waterborne low VOC coating products to meet each of the performance criteria for machinery coating. "We cooperate with upstream raw material supplier to provide customers with solutions for advanced performance, efficient process as well as reconstructing production lines at a low cost," said Henry Wu, General Manager of Sherwin-Williams, General Industrial Asia.

Cooperations towards Environmental Protection in the Engineering Machinery Industry

Supported by Covestro and Sherwin-Williams, SANY Heavy Machinery becomes the first player in the Chinese engineering machinery industry to fulfill large-scale green application of waterborne coatings.

The domestic engineering machinery construction site is poor at controlling temperature and humidity, and is highly dependent on manual spraying. This undoubtedly poses a challenge when it comes to the application of waterborne coatings. To overcome this challenge, Covestro's local R&D team has introduced an easy-to-spray two-component waterborne polyurethane coating technology. Such a coating is equivalent to or even exceeds traditional solvent-borne coatings in performance and has broad application prospects because it reduces VOC emission by at least 80%. It meets the requirements of the latest national standards and encourages the Chinese engineering machinery coating industry to pursue technical upgrading.



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Coating Supplier:	Sherwin-Williams
Coating Raw Material:	Bayhydrol [®] Bayhydur [®] Desmodur [®]
Application Brand:	SANY Heavy Machinery

Partner:





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