

## Specialty and Custom Chemicals Since 1968



### E-SPERSE® RX-SERIES REACTIVE SURFACTANTS FOR ALKYD EMULSIONS

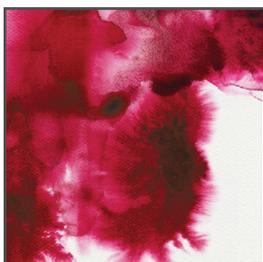
These products are covered by the following US patent: 9255206

Surfactants have a number of critical functions in the manufacture and performance of waterborne alkyd coatings. However, once applied to a substrate in a coating formulation, the surfactant is no longer necessary and is usually undesired because it can cause defects, increase moisture sensitivity, and reduce adhesion to the substrate. E-Sperse® RX-series reactive surfactants provide the necessary alkyd particle stabilization in water and then cure into the alkyd coating upon drying to provide the benefits of surfactant usage without most of the negatives.



**Ethox Chemicals new E-Sperse® RX-series reactive surfactants for the manufacture of waterborne alkyds are listed below:**

PRODUCT	PERCENT SOLIDS	IONIC FORM
E-Sperse® RX-201	100%	Nonionic
E-Sperse® RX-202	100%	Anionic, sulfate (85%), NH <sub>4</sub> salt
E-Sperse® RX-203	30%	Anionic, phosphate, NH <sub>4</sub> salt



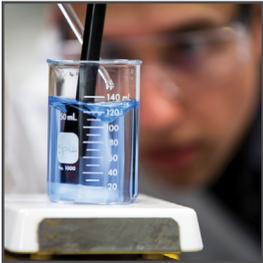
**Users of these reactive surfactants in their alkyd emulsification can expect:**

- a more water repellent coating
- better adhesion to substrates, especially metal
- coating hardness similar to solventborne alkyds
- excellent alkyd emulsion stability and low foaming tendency
- with RX-201, improved freeze/thaw stability of the waterborne alkyd
- fewer coating defects due to surfactant extraction
- improved washability of the coating
- the ability to convert a solvent-based alkyd into a waterborne product.

Most waterborne alkyd products are based on alkyds specifically designed for waterborne



## Specialty and Custom Chemicals Since 1968



application. Increased water compatibility of the alkyd necessarily introduces performance compromises such as reduced repellency. However, the use of RX-202 or RX-203 anionics to emulsify a solventborne alkyd will in most cases allow the conversion of an existing solvent alkyd into a waterborne product with little or no performance drop-off. For more information on how this may be carried out, follow this link: <http://esperse.com/rx-series>.



These RX-series reactive surfactants should be especially useful in hydrophobic coatings such as deck stains, direct-to-metal paints, primers, and other coatings in which high water resistance and excellent adhesion are desired.

If you like the performance of any of these products, but need to have it modified in some way, please let us know. We're happy to build a new product that works better for you.



### Technical Contact

Edward R. Godwin | Technical Accounts Manager  
704-562-2554 | [egodwin@ethox.com](mailto:egodwin@ethox.com)

*The information contained herein is believed to be correct; however, it should not be construed as a guarantee or as a statement of suitability for use in any application. This information should not be considered as a recommendation to violate any patent.*

