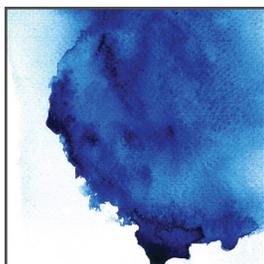
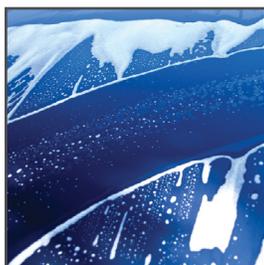


Specialty and Custom Chemicals Since 1968



E-SPERSE® RS-SERIES (Patent Pending)

REACTIVE SURFACTANTS FOR EMULSION POLYMERIZATION

Surfactants have several critical functions in the latex polymerization process. 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. Reactive surfactants that can provide the necessary latex monomer stabilization and polymerize into the latex particle provide the benefits of surfactant usage without most of the negatives.

Ethox Chemicals new E-Sperse® RS-series reactive surfactants are listed below:

Product	% Solids	Reactive groups	Cloud Point	Ionic form
E-Sperse® RS-1596*	100	One	80 C*	Anionic, sulfate NH ₄ salt
E-Sperse® RS-1616	100	One	69 C	Nonionic
E-Sperse® RS-1617	30	Two	51 C	Nonionic
E-Sperse® RS-1684*	30	Two	53 C*	Anionic, phosphate, NH ₄ salt
E-Sperse® RS-1618*	100	Two	54 C*	Anionic, sulfate NH ₄ salt

* 1% in 10% NaCl solution.

Users of these reactive surfactants in their latex polymerization can expect:

- improved latex stability and lower foaming during polymerization
- a more water repellent coating with RS-1618 and RS-1617, built in freeze/thaw stability in the latex that carries on into the finished coating formulation
- better adhesion to substrates, especially metal
- fewer coating defects such as pinholing due to surfactant extraction
- improved washability of the coating
- improved gloss with RS-1618 in gloss paints
- No VOC's

These RS-series reactive surfactants should be especially useful in hydrophobic coatings such



TECHNICAL BULLETIN



ETHOX

Specialty and Custom Chemicals Since 1968

as deck stains, direct-to-metal paints, primers, and other coatings in which high water resistance and excellent adhesion are desired. The RS-series surfactants may be used in conjunction with E-Sperse® 700 series non-reactive surfactants to minimize reactor fouling and maintain low particle size.

TECHNICAL CONTACT

Edward R. Godwin | Coatings Additives Manager

704-562-2554 | 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.



864-277-1620 | www.ethox.com