

DESCRIPTION

OXIMULSION® 9800 and OXIMULSION® 9900 are a new APE-free solution for high gloss waterborne alkyd enamels.

PHYSICAL PROPERTIES¹

OXIMULSION® 9800

Appearance (25°C)	Brown Liquid
Active Content, wt%	96 – 98
CMC (g/L) 20°C	0.4
Surface Tension (mN/m) 20°C	30

OXIMULSION® 9900

Appearance (25°C)	Paste
Active Content, wt%	99.5
CMC (g/L) 20°C	0.02
Surface Tension (mN/m) 20°C	48
Melting / Freezing Point (°C)	35
HLB	17

CHARACTERISTICS AND BENEFITS

OXIMULSION® 9800 and OXIMULSION® 9900 were designed to promote easy emulsification of long-in-oid alkyds using conventional low shear stirring equipment and low emulsifier content through a phase inversion technique.

OXIMULSION® 9800 and OXIMULSION® 9900 enable production of waterborne alkyd enamels with similar properties in the final application since it has the same polymer backbone as solvent-borne formulations, as seen in figure 1, and generate emulsions with a small particle size (about 200 nm), as seen in figure 2.

OXIMULSION® 9800 dosage for resin emulsification is 1 to 2 wt% based on the resin. OXIMULSION® 9900 dosage for resin emulsification is 3 to 10 wt% based on the resin.

APPLICATION RESULTS

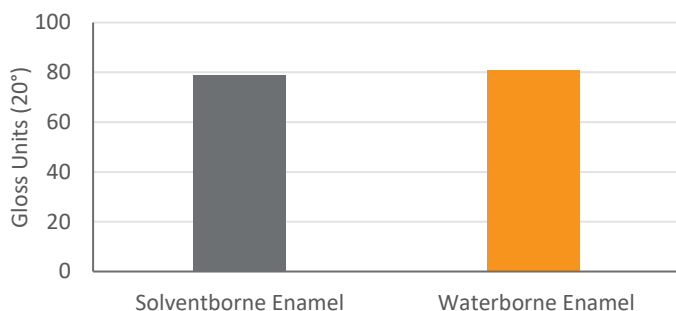


Figure 1. Gloss of a classic solvent borne alkyd enamel compared against a waterborne enamel prepared with an Alkyd Emulsion stabilized with OXIMULSION® 9800 and OXIMULSION® 9900.

STORAGE AND HANDLING

Store in a covered, well-ventilated area, away from sunlight and away from sources of heat or open flame. Ensure that the storage locale has adequate control of temperature, pressure, and humidity. Keep the containers hermetically sealed when not in use. Avoid inhalation and contact with eyes, skin or clothing through proper protection. For more information, consult the Safety Data Sheet (SDS).

SHELF LIFE

12 Months for OXIMULSION® 9800.
24 Months for OXIMULSION® 9900.

STANDARD PACKAGING

Drums	Samples
Bulk	

REGULATORY

CAS ²	-
USA (TSCA)	Listed
Canada (DSL)	Listed
Australia (AICS)	Listed
China (IECSC)	Listed
Korea (ECL)	Listed
New Zealand (NZIoC)	Listed
Phillipines (PICCS)	Listed

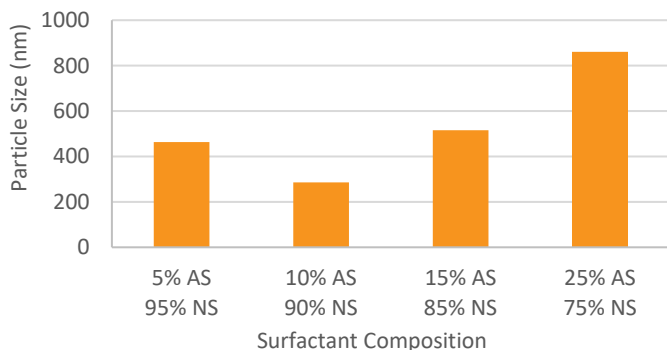


Figure 2. Particle Size as function of surfactant composition, 4% dosage, 80°C.
AS: Anionic Surfactant; NS: Non-ionic Surfactant.

¹The physical properties described in the table are only for informational purposes and may be changed without notice. Please contact Oxiteno for updated data. ²Chemical Abstracts Service.

DISCLAIMER

This information is given in good faith, based on Oxiteno's current knowledge on the subject, and is purely indicative. Any information, including suggestions for using the products, should not preclude experimental testing and verification, which are essential to ensure the suitability of the products to each specific application. All users shall also abide by local laws and obtain all necessary permits. When handling the product, consult the safety data sheet. In case of questions or additional needs, please contact Oxiteno through our customer service channels

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