

Product Specification

DYNOL™ 360 Surfactant – Non-Ionic Superwetting and Coalescing Surfactant**Description**

DYNOL™ 360 Surfactant is a low-foam superwetting and coalescing surfactant. It is a solvent-free liquid that can be used in a wide variety of waterborne applications, including wood, metal, and plastic coatings as well as fountain solutions. This unique, multifunctional additive offers superior dynamic surface tension reduction and wetting, outstanding defect-free foam control, and excellent stability in systems ranging from pH 3–13. DYNOL™ 360 Surfactant also helps to lower the minimum film formation temperature (MFFT) of a system while aiding in coalescence, helping formulations to comply with stringent environmental and VOC requirements.

Features/Benefits

- Low-viscosity, easy-to-handle liquid
- Adds no VOCs per European and US2 regulations
- Contains no added alkyl phenol ethoxylates (APEs) or hazardous air pollutants (HAPs)
- Provides extremely low equilibrium and dynamic surface tension with no added foam
- Provides fast wetting and low contact angles on low-energy substrates, such as plastics
- Lowers typical minimum film formation temperature and improves film coalescence
- Improves wetting, flow and leveling, and aesthetic properties of most waterborne coatings
- Excellent alternative to fluorosurfactants and silicone surfactants

- Avoids need for a defoamer in fountain solutions
- Improves fountain solution wetting of printing plates, and is typically non-aggressive to printing presses and components

Applications

- Waterborne wood coatings
- Waterborne plastic coatings
- Architectural coatings
- Industrial maintenance coatings
- Low- and zero-VOC coatings
- Fountain solutions

Recommended usage

Between 0.1 and 0.9 % of total formulation weight is recommended.

Shelf life

The shelf life for this product is 36 months from the date of manufacture.

Storage and handling

Keep containers tightly closed in a dry, cool, and well-ventilated place. Product is freeze-thaw stable; if it phase separates or freezes at colder temperatures, warm container to 40 °C and mix thoroughly before use.

Please refer to the MSDS for the most current information.

Table 1: Typical Properties¹

Appearance	clear, colorless to yellow liquid
Viscosity @ 21 °C (mPa · s)	120
Specific Gravity @ 25 °C	0.94 – 1.04
Flash Point (°C)	175
Melting Point (°C)	8
Boiling Point (°C)	356
Vapor Pressure @ 25 °C (kPa)	6.4 x 10 ⁻⁷
VOC (US EPA Method 24) ²	0
Water Solubility (g/L at 20 °C)	0.6

- 1 These are typical properties only and do not represent sales or manufacturing specifications.
- 2 VOCs, as defined by the EPA in 40 CFR 51.100(s). DYNOL™ 360 Surfactant was found to contribute no VOC under EPA Method 24 testing conditions when evaluated at 1.0 wt.%

Hazardous goods classification

Information concerning

- classification and labelling according to regulations for transport and for dangerous substances
- protective measures for storage and handling
- measures in case of accidents and fire
- toxicity and ecological effects

is given in our material safety data sheets.

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