Nonionic Low-foam Dynamic Wetting Agent

SURFADOL® 2502

SURFADOL® 2502 is a dynamic wetting agent that provides good foam control and improved water solubility. It is suitable for waterborne coatings and inks.

Composition

100% active liquid
Ethoxylated propoxylated 2,4,7,9-Tetramethyl-5-decyne-4,7-diol
CAS No: 182211-02-5

Typical properties

Chemical family	Ethoxylated acetylenic diol; Nonionic surfactant
Appearance	Light yellow liquid
HLB value	7.8
Equilibrium surface tension (concentration 0.1%, 1b/s)	34.6 dynes/cm
Dynamic surface tension (concentration 0.1%, 6b/s)	36.3 dynes/cm
Density at 25°C, g/cm 3	0.98
Viscosity at 25°C, cps	< 200
VOC (wt %)	1.2
Solubility in water	Slightly soluble
Suggested use level	0.1% - 1.0% of total formulation weight

COA specifications

Test Item	Standard
Appearance	Light yellow liquid
APHA Color (Pt-Co)	≤350
Density at 25°C, g/cm^3	0.900-1.000

Special properties

• Specifically designed for water-based systems
• Reduce dynamic surface tension
• Improve wetting of low-energy and/or contaminated substrates
• Defoaming/de-airentrainment in concrete and oil field cements
• Silicone-free, APEO free, non-toxic, solvent free

Examples of application

•Water-based printing inks
• Concrete admixtures
•Agricultural chemicals
•Water-based adhesives
• Fountain solutions

Related ethoxylated surfactants

A variety of ethoxylated acetylenic diols can be produced from 2,4,7,9-Tetramethyl-5-decyne-4,7-diol and different amount of ethylene oxide.

SURFADOL® surfactant	Physical form	HLB value	Solubility in water
SURFADOL® 420	Light yellow liquid	4	Slightly soluble
SURFADOL® 440	Light yellow liquid	8	Slightly soluble
SURFADOL® 465	Light yellow liquid	13	Soluble
SURFADOL® 485W	Yellow liquid	17	75% water solution
SURFADOL® 485	Yellow paste	17	Soluble

Processing instructions

• Addition to the coating as supplied or as a predilution is possible.
• Can be introduced in the grind and let-down stage.

Package and storage

The standard package for SURFADOL® 2502 is 180kg plastic drums, 4 drums/pallet.
The material can also be supplied in 950kg IBCs and 20kg pails.

Keep containers tightly closed in a dry, cool, and well-ventilated place.

When stored in an original unopened packaging, the product has a shelf life of 48 months from the date of manufacture.