



Dow Industrial Solutions

Ultra Low VOC Coalescing Agent for Architectural Coatings

Improved Performance with a Superior Environmental Profile

DOWANOL™ LoV 485 Glycol Ether

To enable optimal performance and meet strict VOC regulations, Dow has introduced a new non-HAPs, P-Series glycol ether ester with <0.5 wt% VOC content by ASTM D2963 or ASTM D6886. DOWANOL™ LoV 485 Glycol Ether displays excellent coalescing properties with acrylic, styrene-acrylic, and vinyl acrylic latex binders.

Key Features:

- Ultra Low VOC (<0.5 wt% VOC)
- Excellent coalescing properties with acrylic, styrene-acrylic, and vinyl-acrylic latex binders
- Non-HAPs
- Very low odor
- Phthalate free
- Aromatic free
- Low foam



Superior VOC Performance per ASTM and EPA Methods†

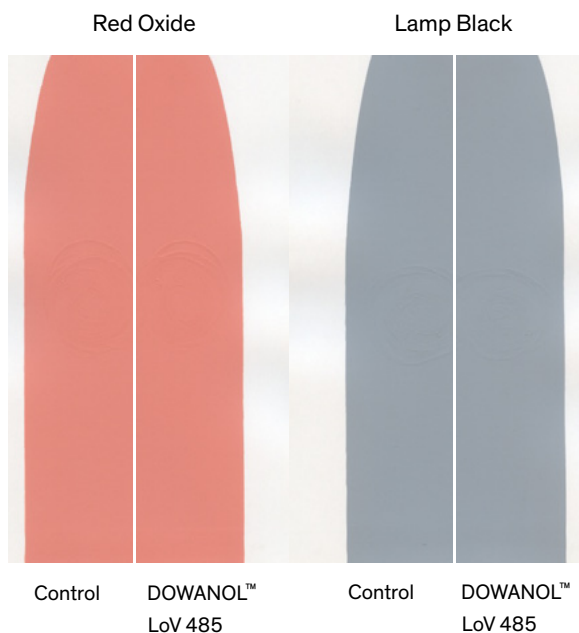
Sample	Total VOC (%w/w)*
UCAR™ IBT Filmer	>99%
DOWANOL™ LoV 485 Coalescent	0.2 - 0.5%
Competitive Low VOC Plasticizer	0.9 - 1.2%

† Method ASTM 6886 (14) and EPA Method 24 (110 °C oven test)

*These are typical properties, not to be construed as specifications.

Coalescent	UCAR™ IBT Filmer	DOWANOL™ LoV 485 Glycol Ether	Competitive Low VOC Plasticizer
VOC	=	++	+
Odor	=	+	+
MFFT Reduction	=	=	=
Hardness Development	=	-	-
Scrub Resistance	=	= +	=
Film Opacity	=	=	=
Film Gloss	=	=	=
Color Acceptance	=	=	=

Outstanding Color Acceptance (VA Resin)



Typical Physical Properties*

Property	Value
Molecular Weight (g/mol)	490.69
Boiling Point @ 760 mmHg	485 °C
Flash Point (Setaflash Closed Cup)	156 °C (312 °F)
Freezing Point	< -80°C
Vapor Pressure @ 20 °C	<0.000001 mm Hg
Specific Gravity @ 25 °C /25 °C	0.97557
Liquid Density @ 25 °C	8.12 lb/gal
Viscosity, cP at 25 °C	19.4
Specific heat (J/g/°C @ 25 °C)	1.42
Heat of vaporization (J/g/°C @ 25°C)	342.9
Net heat of combustion (kJ/g predicted @ 25 °C)	28.8
Surface Tension @ 25 °C	25.77 dynes/cm
Evaporation Rate (n-butyl acetate = 1)	<0.000001
Solubility, wt% at 25 °C	
Solvent in Water	<1.0 wt%
Water in Solvent	<1.0 wt%
Hansen Solubility Parameters (joules/cm³)^{1/2}	
Δd (Dispersion)	16.1
Δp (Polar)	4.0
Δh (Hydrogen Bonding)	6.0

*These are typical properties, not to be construed as specifications.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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