



**Lubrizol**

PIGMENT DISPERSIONS

# **SOLSPERSE<sup>®</sup> M SERIES**

HYPERDISPERSANTS FOR MULTIMEDIA COLORANTS



## SOLSPERSE® M SERIES HYPERDISPERSANTS

**The multicompatible choice for outstanding color.**

Developing paints and coatings for today's OEMs has never been more challenging. Compatibility considerations, increased performance requirements and diverse global regulations have been common frustrations for formulators until now.

Introducing the Solsperse M Series for multimedia colorants. With its broad formulation compatibility, positive contribution to overall coating quality and comprehensive global compliance, including suitability for formulating very low VOC systems, the innovative Solsperse M Series line of hyperdispersants enable formulators to develop colorants for industrial coatings that meet or exceed OEM specifications.

**The Solsperse name is respected by formulators and manufacturers worldwide as a leader in efficient pigment dispersion and color strength development.**

## MULTIMEDIA TINT SYSTEMS—ADVANTAGES

**Formulation Flexibility:** Broad compatibility across pigments, resins and solvents

**Inventory Ease:** Fewer products in larger quantities

**Accuracy:** Reduced opportunity for operator error

**Savings:** Lower inventory and maintenance costs

## SIMPLIFIED INVENTORY, GREATER EFFICIENCY

Solsperse® M Series hyperdispersants have been specifically engineered for broad formulation compatibility, allowing rationalization of tinter inventories.

A reduction in additives inventory is also possible. By reducing inventories and streamlining dispersion processing, the Solsperse M Series enables significant cost savings in labor and materials.



## FORMULATION FLEXIBILITY

The Solsperse M Series is designed to deliver broad compatibility to colorants for solventborne industrial coatings. This broad compatibility helps formulators efficiently develop colorants and ultimately coatings that meet the high performance demands of OEM specifications.

## HIGH COATING QUALITY

Providing outstanding dispersion and pigment stabilization, the Solsperse M Series delivers strong flocculation resistance and color stability, leading to improved color development, increased jetness, reduced haze and higher gloss—all critical properties that OEMs desire in coatings. Achieving higher color strength means that the pigment is being utilized to a higher degree. Therefore, less functional pigment is required to meet OEM color specifications.



## REDUCED OPERATOR ERROR

Utilizing fewer dispersant variations for your colorants minimizes the opportunity for operator error. By reducing or eliminating preventable mistakes, the Solsperse M Series creates significant savings in rework, time and materials.

## REGULATORY COMPLIANCE

With low VOC options available, the Solsperse M Series makes it easy to formulate globally because our products comply with regulations in most major countries. Please contact us for additional information and detailed MSDS.

## OPERATIONAL EASE AND FLEXIBILITY

### Minimal Resin

Grinding resins compete with dispersants for the surface of the pigment. The Solsperse M Series enables less grinding resin to be used in the millbase, thereby reducing viscosity and improving the flow of your colorants. Some Solsperse M Series options can completely eliminate the need for grinding resins, which means that the millbase viscosity will be even further reduced.

### Higher Pigment Loading

The Solsperse M Series reduces inter-particulate attraction, reducing the viscosity contribution from the pigment. Reduced mill base viscosity allows higher pigment content and mill utilization, contributing to faster dispersion, increased production and energy savings. Because higher pigment loading results in a larger batch size, the overall number of batches may also be reduced.

## SOLSPERSE® M SERIES FOR MULTIMEDIA COATINGS

Choosing the right Solsperse M Series product depends on a number of factors. Solvent or carrier system, pigment, filler, resin compatibility and performance benchmarks are all key considerations. Your Lubrizol representative can help select the best fit for your operation.

Requirement	GOOD	BETTER		BEST		
	Solsperse 38500	Solsperse M385	Solsperse M386	Solsperse M387	Solsperse M388	Solsperse M389
PERCENT ACTIVE	40	50	50	100	50	50
SOLVENT	PM Acetate	PM Acetate	Solvesso 100	None	PM Acetate	N-butyl Acetate
RESIN SYSTEMS						
Alkyd		●	●	●	●	●
Acrylic	●	●	●	●	●	●
Epoxy	●	●	●	●	●	●
Urethane	●	●	●	●	●	●
Nitrocellulose	●	●	●	●	●	●
CAB	●	●	●	●	●	●
SOLVENT SYSTEM						
Aliphatic	●	●	●	●	●	●
Aromatic	●	●	●	●	●	●
Mixed Esters/ Ketones	●	●	●	●	●	●
PIGMENTS						
Whites	●	●	●	●	●	●
Inorganic Oxides	●	●	●	●	●	●
Organic Blues/ Greens	●	●	●	●	●	●
Organic Reds/ Yellows	●	●	●	●	●	●
Carbon Blacks	●	●	●	●	●	●
SPECIAL						
Resin Free					●	●
Zero VOC Capable*				●		

● Highly Recommended

● Recommended

\*Total volatile organic content (VOC) < .035% based on testing per ASTM 6886 standard.  
Colorant can be formulated to achieve zero VOC by using exempt solvents.



GOOD

### Solsperse 38500

Solids/Active: 40% in PGMEA (MPA)  
 Physical Form: Liquid  
 Solubility: Excellent solubility in Esters, Ketones and Aromatic Hydrocarbons  
 Applications: Organic pigments

#### Dosage

Dosage is recommended to be 2.0 to 2.5 mg/m<sup>2</sup> active dispersant for resin-containing formulations and up to 4mg/m<sup>2</sup> for resin-free formulations.

BETTER

### Solsperse M385/M386

Solids/Active: M385—50% in PGMEA (MPA)  
 M386—50% in Solvesso 100  
 Physical Form: Liquid  
 Solubility: Excellent solubility in Esters, Ketones and Aromatic Hydrocarbons  
 Applications: Organic pigments, especially phthalo blues  
 Good in a wide variety of resin systems

BEST

### Solsperse M387

Solids/Active: 100%  
 Physical Form: Pourable Liquid  
 Solubility: Excellent solubility in Esters, Ketones and Aromatic Hydrocarbons  
 Applications: Can make zero VOC colorants\*; suggest Estasol or T-Butyl Acetate  
 Excellent affinity on a very wide range of inorganic and organic pigments  
 Excellent stability in a wide variety of resin systems  
 Works well in resin-containing formulations

### Solsperse M388/M389

Solids/Active: M388—50% in PM Acetate  
 M389—50% in N-butyl Acetate  
 Physical Form: Liquid  
 Solubility: Excellent solubility in Esters, Ketones and Aromatic Hydrocarbons  
 Applications: Excellent affinity on a very wide range of inorganic and organic pigments  
 Excellent stability in a wide variety of resin systems  
 Works well in resin-free and resin-containing formulations

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[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)

## **WHAT WE ADD MAKES THE DIFFERENCE.™**

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Lubrizol is dedicated to helping our customers by understanding their needs and delivering innovative resins and additives for today's OEM industrial metal applications. We invite you to learn more about our diversified portfolio of products. Contact your local Lubrizol representative for a consultation or product sample.