



Lubrizol

PAINTS & COATINGS

SOLSPERSE™ M SERIES

HYPERDISPERSANTS FOR MULTIMEDIA COLORANTS



SOLSPERSE™ M SERIES HYPERDISPERSANTS

The multicompatible choice for outstanding color.

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

Introducing the Solsperse™ M Series for multimedia pigment concentrates and in-plant tinting. The Solsperse M Series can be tailored to the requirements of the formulator to produce high quality multi-compatible resin-containing pigment concentrates and/or resin-free pigment concentrates.

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

The Solsperse™ brand of hyperdispersants 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.



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

Polymeric dispersants require broad compatibility with a myriad of binder systems. The specific combination of anchor group and polymeric chains leads to the effectiveness of a polymeric dispersant and dispersant design that can be tailored to match the requirement of a colorant scheme. High resin systems are used where minimizing the VOC of the colorant system is important in meeting current coating industry targets to reduce solvent emissions to the environment.

Low resin solids or resin free pigment concentrates offer the advantage of minimizing potential incompatibility of the resin, or the effect of the resin on the final coating properties, including film hardness or resistance properties.

Lubrizol's Solsperse M Series Hyperdispersants provide a range of formulation options in high resin content pigment concentrates to resin free pigment concentrates.

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.



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.

SOLSPERSE™ M SERIES FOR MULTIMEDIA COATINGS

Choosing the right Solsperser 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.

	BETTER		BEST	
	Solsperser™ M385	Solsperser™ M387	Solsperser™ M387	Solsperser™ M388
PERCENT ACTIVE	50	100	100	50
SOLVENT	PM Acetate	None	None	PM Acetate
RECOMMENDED FORMULATING ENVIRONMENT/COLORANT TYPE	High Solids Pigment Concentrates	Resin-Minimal Pigment Concentrates	Resin-Minimal Pigment Concentrates	Resin-Free Pigment Concentrates
RESIN SYSTEMS				
Alkyd Long Oil / Med Oil / Short Oil	** / ** / ***	***	***	*** / *** / ***
Acrylic	**	***	***	***
Epoxy	**			***
Urethane	**	***	***	***
Nitrocellulose	***	*	*	**
CAB	**	**	**	***
SOLVENT SYSTEMS				
Aliphatic	***	**	**	***
Aromatic	***	***	***	***
Mixed Esters/Ketones	***	***	***	***
PIGMENTS				
Whites	***	**	**	***
Inorganic Oxides	***	***	***	***
Organic Blues/Greens	***	***	***	***
Organic Reds/Yellows	**	**	**	***
Carbon Blacks	***	***	***	**
PROPERTIES				
Resin-Free		**	**	***
Low Resin Solids	**	***	***	**
High Resin Solids	***	**	**	
Zero VOC Capable ¹		***	***	

***Highly Recommended

**Recommended

*Suitable

¹Total volatile organic content (VOC) < 0.035% based on testing per ASTM 6886 standard. Colorant can be formulated to achieve zero VOC by using exempt solvents.



BETTER

Solsperse™ M385

Solids/Active: 50% in PGMEA (MPA)
 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

Dosage is recommended to be:

- 2.0 to 2.5 mg/m² active dispersant in high resin-containing formulations
- 2.5 to 3.0 mg/m² active dispersant in low resin-containing formulations
- Up to 4 mg/m² for resin-free formulations

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

Solids/Active: 50% in PM 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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