Product Description

Used as an additive in car polish, paints, coatings, and graphic arts to increase scratch resistance, lubrication, release, and block resistance

Provides slip and anti-block properties in coatings, adhesives, graphic arts, wood, and packaging

Provides slip, release, scratch resistance, water repellency, and anti-block properties for wood coatings and blends containing synthetic and natural lattices

Provides superior slip, scratch resistance, and anti-block properties in paint, varnish, and wood applications

Provides excellent lubricity, scratch and mar resistance, and anti-blocking properties; can also be used as an anti-block and slip aid in adhesives and coatings

Best used in water-based coatings where improved slip, rub resistance, hardness, and/or block resistance is needed

Enhances anti-blocking, slip properties, and mar resistance; used most effectively for wood coatings, inks, and overprint varnishes

Provides mar, rub, block, and scratch resistance in coatings and graphic arts formulations

Used in floor polish and overprint varnishes when a high degree of slip resistance is needed; also provides durability and scratch resistance to wood applications

Used successfully in latex glove formulations; provides release and acts as a detackifier for synthetic and natural rubber; offers slip for adhesives and sealants

Provides excellent slip and buffability

Effective as a sacrificial anti-graffiti coating; improves water resistance in industrial and wood coatings; excellent lubricity and mold release in industrial moldings

Designed to be a water repellent additive, effectively used for the curing and protection of concrete

Improves water resistance and anti-block properties in paints and coatings

This fine particle sized emulsion provides excellent water repellency, block resistance, and lubricity when added to varnishes and coatings without affecting gloss

An excellent early water beading and anti-blocking agent for exterior coatings; also used for hot tire scuff resistance

Provides excellent water and block resistance in paint and coating formulations, along with long-term water bead and water repellency on wood

Water resistant wood coat additive for exterior wood that provides long lasting water beading and swell resistance

A high solids and low VOC wood coat additive for exterior wood and wood composites that provides good water beading and swell resistance

Offers good water beading and anti-swell; use this product when intercoat adhesion or recoatability are required

Provides lubricity and is effective as a high temperature mold release for metal dies

Provides excellent anti-blocking and scratch resistance in coatings as well as rub resistance in inks and overprint varnishes

An anionic, high solids wax emulsion with excellent water resistance

Imparts rub resistance, block resistance, and matting properties to aqueous paints, coatings, and inks

Improves rub and abrasion resistance in pigmented and semi-gloss coatings, as well as inks & OPVs at low addition rates, with little effect on gloss

Provides outstanding adhesion to cellulosic and other polar substrates; enhances the water, grease, oil, and solvent resistance of coatings and adhesives

Provides improved adhesion to polyolefin substrates; exhibits excellent adhesion to paper, polar, and polymeric substrates as well as glass and polyester



MICHELMAN Additives Product Portfolio

Innovating a Sustainable Future

As a global developer and manufacturer of environmentally friendly advanced materials for industry, Michelman offers solutions for the coatings, printing & packaging, and industrial manufacturing markets. Motivated by unwavering values, and ingrained with a passion for environmentally conscious innovation, we help companies around the

globe establish and achieve their product development goals. With access to Michelman's expert materials resources, a compelling combination of world-class talent and specialty chemistries, our customers are excelling in the diverse range of markets they serve with sustainable and responsible solutions.

MICHELMAN'

Please contact the European Sales & Marketing Team at +352 26 39 44 1 or SalesSupportEurope@michelman.com.

Americas

China

Michelman, Inc. Tel: +1 513 793 7766 Fax: +1 513 793 2504

Michelman New Material (Shanghai) Co., Ltd. Tel: +86 21 2098 6880 Fax: +86 21 2098 6881

Europe, Middle East, Africa

Michelman SARL Tel: +352 26 39 44 1 Fax: +352 26 39 44 80

India

Michelman Private Limited (f.k.a. Michelman Chemicals Pvt Ltd) Tel: +91 22 6221 3800 Fax: +91 22 6221 3801

Asia Pacific

Asia-Pacific Pte. Ltd. Tel: +65 6861 2822 Fax: +65 6861 2262

Japan

Michelman Japan LLC Tel: +81 3 45 80 14 90 Fax: +81 3 45 80 27 01

of their accuracy is made because we cannot cover every possible application for our disclaims any warranty of merchantability or fitness for a particular purpose in connection with the purchase of its products. It is recommended that purchasers conduct their own

tests to determine the suitability of such products for their particular purpose. Seller shall and the research of others, and are believed to be accurate. However, no guarantee not be liable for any injury, loss or damage, direct or consequential arising out of the products nor anticipate every variation encountered in manufacturing equipment and products are not intended as recommendations to use our products in the infringement of any patent and our products are sold without warranty of non-infringement. © 2018 Michelman. All rights reserved. ® Reg. U.S. Pat. & TM Off. All marks contained herein are

2018-11-14 Additives Product Portfolio EMEA-EN









Additives Product Portfolio TECHNICAL DATA PROPERTIES APPLICATIONS

	Solids Type	Product Name	%NV	Emulsifier Charge	рН	Rec pH	Viscosity (mPas)	Abrasion Resistance	Adhesion	Block Resistance	Curing Control	Lubricity	Mar Resistance	Matting	Release	Rub Resistance	Sacrificial Antigraffiti	Scratch Resistance	Slip Resistance	Swell Resistance	Water Beading	Water Repellance	Adhesives	Architectural Coatings	Industrial Coatings	Inks & OPVs	Leather & Textile Finishes	Mold Releases & Die Castings	Polishes	Wood Coatings	
Surface Modifying Emulsions	Carnauba	Michem® Lube 156 PFP	25	Nonionic	4,5 - 7,5	1,0 - 12,0	< 15			•		•			•			•					•		•	•	•	•	•	•	
		Michem® Lube 160 PFP	25	Anionic	4,0 - 7,5	1,0 - 12,0	< 15			•		•			•			•					•		•	•	•			•	
	Carnauba/Paraffin Wax Co-emulsion	Michem® Lube 382	40	Anionic	4,0 - 8,0	> 7,0	< 1000			•		•			•			•			•	•			•				•	•	
	Fischer Tropsch	Michem® Emulsion 98040M1	40	Nonionic	3,0 - 10,0	2,0 - 12,0	< 120			•		•						•					•		•		•			•	
	High Density Polyethylene	Michem® Emulsion 61335P	35	Anionic	9,0 - 11,0	>7,0	< 50	•		•		•	•			•		•					•		•	•			•	•	
		Michem® Emulsion 93235A	35	Nonionic	8,5 - 10,5	> 7,0	< 50	•		•		•	•			•		•							•	•	•	•	•	•	
		Michem® Emulsion 93335	35	Nonionic	9,0 - 10,5	> 7,0	< 50	•		•		•	•			•		•							•	•	•		•	•	
		Michem® Lube 190	35	Anionic	8,7 - 9,7	> 7,0	< 50			•		•	•			•		•						•	•	•	•			•	
	Maleated Polypropylene	Michem® Emulsion 94340	40	Anionic/Nonionic	7,5 - 9,0	> 7,0	< 120	•		•								•	•					•	•	•	•	•	•	•	
	Microcrystalline	Michem® Lube 124P	42	Anionic	8,7 - 9,7	> 7,0	< 3200			•		•			•								•		•		•	•			
	Montan	Michem® Emulsion 61222A	22	Nonionic	4,5 - 7,0	2,0 - 12,0	< 25					•			•		•								•		•		•		
	Paraffin	Michem® Emulsion 47950	50	Nonionic	4,0 - 10,0	1,0 - 12,0	20 - 200					•			•		•				•	•	•	•	•			•		•	
		Michem® Emulsion 70350A	50	Cationic	5,0 - 8.0	< 7,0	< 1000				•										•	•			•		•				
	Paraffin/Polyethylene Wax Co-emulsion	Michem® Emulsion 36840A	40	Anionic	8,0 - 10,0	> 7,0	< 500			•		•			•						•	•	•	•	•	•	•			•	
		Michem® Emulsion 62330	30	Anionic	9,4 - 10,4	> 7,0	< 50			•		•									•	•		•	•	•				•	
		Michem® Emulsion 66035	35	Anionic	9,3 - 10,3	> 7,0	< 100			•		•									•	•		•	•		•			•	
		Michem® Lube 270R	39	Anionic	9,0 - 10,0	> 7,0	<1000			•											•	•		•		•			•	•	
	Proprietary Co-emulsion	Michem® Wood Coating 44	44	Anionic	8,0 - 10,0	> 6,0	< 500													•	•	•		•	•					•	
		Michem® Wood Coating 70LV	50	Anionic	8,8 - 10,3	> 6,0	<500													•	•	•		•	•					•	
		Michem® Wood Coating 75	50	Anionic	8,8 - 10,3	> 6,0	<100													•	•	•		•	•					•	
	Polyethylene	Michem® Emulsion 52137P	37	Nonionic	8,0 - 10,0	> 7,0	≤100			•		•			•										•			•			
		Michem® Emulsion 91240G	40	Nonionic	5,0 - 8,0	2,0 - 12,0	< 300			•		•	•			•		•							•	•			•		
	Scale Wax	Michem® Emulsion 70852	52	Anionic	10,5 - 11,5	> 7,0	200 - 700				•	•									•	•		•	•		•			•	
Surface Modifying Dispersions	Polyethylene	Michem® Guard 349	50	Nonionic	6,5 - 8,5	> 7,0	500 - 1000	•		•				•		•		•						•	•	•	•			•	
		Michem® Guard 1350A	50	Nonionic	7,0 - 9,0	7,0 - 10,0	< 500	•								•		•						•	•	•			•	•	
Surface Modifying Specialty Dispersions	Ethylene Acrylic Acid Copolymer	Michem® Prime 4983RHSA	35	-	7,7 - 9,0	-	1000 - 3000		•														•		•	•					
	Modified Ethylene Acrylic Acid Dispersion		28	-	8,0 - 10,0	> 7,0	< 100		•																•	•					