

Michem® Prime 4983R

BRAND FAMILY OVERVIEW Michem® Prime functionalized copolymer dispersions deliver the flexibility, water and chemical resistance, and barrier properties of polyethylene in a water-based form. Property enhancements include excellent clarity, adhesion, lower heat seal temperature, durability, and crosslinkability.

USAGE This dispersion provides outstanding adhesion to both metallic and cellulosic substrates and enhances the water, grease, oil, and solvent-resistance of coatings and adhesives. It can serve as a tie coat or primer for extrusion coatings, a foil laminate, specialty paper coating, paper sizing agent, heat sealable coating, and a nonwoven binder, and used as a thermally active binder in thermal transfer release coatings.

DESCRIPTION Copolymer dispersion

PERFORMANCE ATTRIBUTES This product is used in many applications including the following:

Market Properties Imparted **Barrier Coatings** heat seal, MVTR, water resistance Cable & Cordage fiber treatment **Functional Coatings** adhesion promotion, grease & oil resistance, heat seal, water resistance General Metal adhesion promotion, chemical resistance, fiber sizing, heat seal **Heat Seal Coatings** grease & oil resistance, heat seal, metal, moisture resistance, Substrate - paper Leather adhesion promotion, chemical resistance, fiber sizing, heat seal

page 1 www.michelman.com



Michem® Prime 4983R

PHYSICAL PROPERTIES

The following properties are typical but should not	be considered specifications:
Appearance:	Translucent liquid
Emulsifier Charge:	N/A
Freeze/Thaw Stability:	Stable after 5 Cycles
Non-Volatile (%) :	24.2 - 25.4
Specific Gravity:	0.97 - 0.99
pH:	8.4 - 9.4
Recommended pH of your system:	> 7.0
Brookfield Viscosity (cps):	50 - 400
Spindle Number:	2
RPM:	60
Shelf Life (months) :	The product has a shelf life of 24 months from date of manufacture when storage and handling instructions are followed.

(and PRODUCT CODE)

SITE OF MANUFACTURE USA (MP4983R), Belgium (MP4983R.E), Singapore (MP4983R.S)

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

HANDLING Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment.

Revised 27 August 2024

The following information for this product, specific to each site of manufacture, is available upon request:

- Material Safety Data Sheets in various formats and languages (includes global chemical inventory listing)
- Food Contact Declaration of Compliance (if applicable)

page 2 www.michelman.com



Michem® Prime 4983R

Americas

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

China

Michelman New Material (Shanghai) Co., Ltd. Tel: +86 21 3810 3800 Fax: +86 21 3810 3811

Luxembourg

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

India

Michelman Private Limited Tel: +91 22 6221 3800 Fax: +91 22 6221 3801/02

Singapore

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

The facts stated and the recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application for our products nor anticipate every variation encountered in manufacturing equipment and methods. The products discussed are sold without warranty, express or implied and Seller 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 not be liable for any injury, loss or damage, direct or consequential arising out of the use of or the inability to use the product. Statements concerning the possible use of our 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.

© 2025 MICHELMAN, INC. All rights reserved. ® Reg. U.S. Pat. TM Off. All marks contained herein are registered or owned by Michelman, Inc. Michelman is ISO 9001:2015 certified.

page 3 www.michelman.com