

# 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

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**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.

**SITE OF MANUFACTURE  
(and PRODUCT CODE)**

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)

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