

# Michem® Prime 4990R

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

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

**DESCRIPTION** Ethylene acrylic acid dispersion

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

| Market              | Properties Imparted                                    |
|---------------------|--|
| Cable & Cordage     | <i>adhesion promotion, heat seal, water resistance</i> |
| Heat Seal Coatings  | <i>metal, Substrate - paper</i>                        |
| Inks                | <i>adhesion promotion, chemical resistance</i>         |
| Overprint Varnishes | <i>adhesion promotion, chemical resistance</i>         |
| Thermal Transfer    | <i>release</i>   |

**PHYSICAL PROPERTIES** The following properties are typical but should not be considered specifications:

|                                |   |
|--------------------------------|---|
| Appearance:                    | White liquid  |
| Emulsifier Charge:             | Ammoniated dispersion   |
| Freeze/Thaw Stability:         | None: protect from freezing   |
| Non-Volatile (%) :             | 32.0 - 35.0   |
| Specific Gravity:              | 0.98 - 1.00   |
| pH:                            | 7.8 - 8.8   |
| Recommended pH of your system: | > 7.0   |
| Brookfield Viscosity (cps) :   | 200 - 850   |
| Spindle Number:                | 3   |
| RPM:                           | 60  |
| Shelf Life (months) :          | The product has a shelf life of 12 months from date of manufacture when storage and handling instructions are followed. |

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**SITE OF MANUFACTURE (and PRODUCT CODE)** USA (MP4990R), Belgium (MP4990R.E), Singapore (MP4990R.S)

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

**HANDLING** Handle in accordance with good industrial hygiene and safety practice.

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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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