

# Michem® Dispersion Urethane 2012

**BRAND FAMILY OVERVIEW** Michem® Dispersion Urethanes are water-based polyurethane dispersions that can enhance toughness, scratch resistance, water resistance and flexibility of coatings. Michem Dispersion Urethanes are useful for industrial wood, concrete, and metal substrates.

**USAGE** Provides very good abrasion, water, and blocking resistance and fast hardness development for floor coatings, parquet lacquers and industrial coatings.

**DESCRIPTION** Polyurethane Acrylic Hybrid Dispersion

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

Market	Properties Imparted
Industrial & Institutional	<i>abrasion resistance, block resistance, hardness, water resistance</i>
OEM Applied Wood Protection	<i>abrasion resistance, block resistance, hardness, water resistance</i>

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

Appearance:	White liquid
Solids Type:	Polyurethane Acrylic hybrid
Emulsifier Charge:	Anionic
Minimum Film Forming Temperature (degrees Celsius) :	30
Non-Volatile (%) :	34.0 - 36.0
pH:	7.0 - 9.0
Brookfield Viscosity (cps) :	20 - 500
Spindle Number:	2
RPM:	20
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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**APPLICATION DATA** This dispersion is compatible with most common additives, pigments, and pigment preparations and can be combined with other emulsions. Due to the variety of products in the market, compatibility and storage stability have to be tested from case to case. Polyurethane thickeners are highly recommended but most commercial thickeners can be used. Due to the low minimum film forming temperature of this emulsion it is not mandatory to add coalescing agents. For application properties of the final product it might be helpful to add co-solvents like butyl glycol, butyl diglycol, Texanol or glycol ether. For Storage and Safety information see Safety Data Sheet.

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

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**HANDLING** Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. 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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<b>Americas</b>  Michelman Inc. Tel: +1 513 793 7766 Fax: +1 513 793 2504	<b>Luxembourg</b>  Michelman International SARL Tel: +352 26 39 44 1 Fax: +352 26 39 44 80	<b>Singapore</b>  Michelman Asia-Pacific Pte. Ltd. Tel: +65 6861 2822 Fax: +65 6861 2262
<b>China</b>  Michelman New Material (Shanghai) Co., Ltd. Tel: +86 21 3810 3800 Fax: +86 21 3810 3811	<b>India</b>  Michelman Private Limited Tel: +91 22 6221 3800 Fax: +91 22 6221 3801/02	

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