

# Michem® Dispersion Urethane 2012B

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

**DESCRIPTION** Water-based polyurethane-acrylic hybrid system

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

Market	Properties Imparted
Concrete	<i>abrasion resistance, block resistance, chemical resistance, hardness, water resistance</i>
OEM Applied Wood Protection	<i>abrasion resistance, block resistance, chemical resistance, hardness, water resistance</i>
On-Site Applied Wood Protection	<i>abrasion resistance, block resistance, chemical 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) :	10 - 300
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 can be used. Due to the minimum film forming temperature of this dispersion it is mandatory to add coalescing agents.

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

**HANDLING** 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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