

# Aptalon™ M8100

Waterborne Self-Crosslinking Polyurethane Dispersion

PERFORMANCE COATINGS

## PRODUCT DESCRIPTION

Aptalon™ M8100 is a water-borne, self-crosslinking polyurethane dispersion using patented polyamide polyol technology. This resin chemistry provides excellent hydrolysis resistance, hardness, and chemical resistance that outperforms typical waterborne polyurethane chemistries. Aptalon M8100 is a 1K dispersion designed for high performance metal applications. This product will meet the performance properties of many 2K solvent-borne finishes without the need for external cross-linkers. Aptalon M8100 has no intentionally added NMP, NEP, and APEO which allows for global formulation compliance.

## FEATURES/BENEFITS

- VOC\* - Can formulate to <275 g/l (USA) / 110 g/l EU VOC
- NMP, NEP, and APEO-Free
- Broad level of chemical resistance
- Can be used for demanding metal applications
- Hard and tough films
- Finishes perform well in extreme exterior environments

\* Using USA EPA method 24 / European Union ISO 11890-2

## PHYSICAL CHARACTERISTICS\*

Appearance (wet)	Milky White Dispersion
Total Solids by Weight, %	37.0 ± 1.0
Total Solids by Volume, %	34.2 ± 1.0
Density, lbs. /gal (g/ml)	8.69 (1.04)
Brookfield Viscosity, cps	< 500
pH	7.5 – 8.5
Volatile Organic Compounds, wt. %	0.85 TEA
Freeze-Thaw Stability	Protect from freezing

\* Property values represent typical results only and are not to be considered specifications

## TYPICAL APPLICATIONS

- Paint & Coating topcoats for medium duty, metal substrates, interior/exterior applications
- ISO category C1-C4 end use metal applications – OEM factory and field applied
- Excellent waterborne topcoats in ACE, Building Construction and Transportation component markets

## SHELF LIFE/STORAGE

Lubrizol recommends retesting the quality 1 year after the date of manufacture. Store unopened containers indoors at temperatures between 7 °C - 35 °C (45 °F - 95 °F). Store in location protected from freezing.

## REGULATORY STATUS

Please see the product's current material safety data sheet, MSDS, for regulatory information. You can request an MSDS at [www.lubrizolcoatings.com](http://www.lubrizolcoatings.com).

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

Trademarks owned by The Lubrizol Corporation © The Lubrizol Corporation 2014, All Rights Reserved

The Lubrizol logo consists of the word "Lubrizol" in a bold, sans-serif font. A blue swoosh underline is positioned beneath the letters "i", "z", "i", and "o".

[www.lubrizolcoatings.com](http://www.lubrizolcoatings.com)