



Lubrizol

PAINTS & COATINGS

APTALON™ M8100

WATER-BASED SELF-CROSSLINKING POLYURETHANE DISPERSION

Aptalon™ M8100 is a water-based, self-crosslinking polyurethane dispersion using patented Aptalon polyamide technology in the backbone. Aptalon M8100 is designed to deliver very high performance to industrial metal coating applications. Coatings based on Aptalon M8100 deliver enhanced weathering resistance, hardness and chemical resistance over other commercial polyurethane chemistries. A one-component system, it matches or exceeds the performance of two-component finishes without the need for cross-linkers, and because it is NMP, NEP and APEO-free, it allows for globally compliant formulations.

Adaptive Technology

Aptalon M8100 polyamide-urea copolymer chemistry has the performance of polycarbonate designed technologies, accelerating one-component formulations for ISO 12944, category C1-C4 applications. When applied over commercially available epoxy primers, Aptalon M8100 enhances overall coating properties to excel in demanding metal applications and exhibits excellent inter-coat adhesion with epoxy primers. Coatings based on Aptalon M8100 perform well in extreme exterior environments.

Excellent Hardness and Durability

Coatings based on Aptalon M8100 exhibit high corrosion resistance and surface hardness, excellent chemical resistance and hydrolytic stability for durable finishes. It protects metal surfaces from abrasions and marring and works effectively to deter a broad range of chemicals for a long-lasting coating. Imagine the possibilities that a premium, adaptive polymer technology can deliver for metal applications.

Resistance from Aggressive Industrial Fluids

Aptalon M8100 technology provides the vehicle to formulate outstanding water-based coatings that withstand heavy chemical, industrial and hazardous environments. OEM machinery, heavy equipment, truck and transportation components and commercial building products benefit from solutions developed with Aptalon's unique technology.

WHAT WE ADD MAKES THE DIFFERENCE.™

- UNIQUE AQUEOUS TOPCOAT TECHNOLOGY PROVIDING EXCELLENT HARDNESS AND DURABILITY
- 1K TOPCOAT DEVELOPMENT THAT RIVALS 2K PERFORMANCE
- EXCELLENT CHEMICAL RESISTANCE EFFECTIVE FOR AGGRESSIVE INDUSTRIAL APPLICATIONS
- ALLOWS FOR GLOBAL COMPLIANT COATING FORMULATIONS – APEO, NEP AND NMP FREE

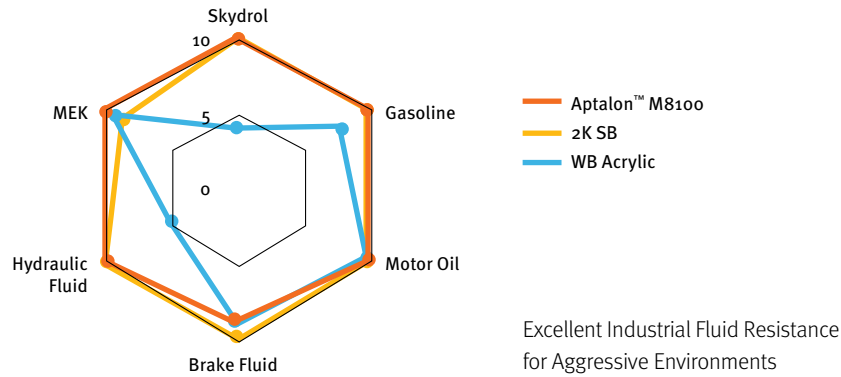
Aptalon™

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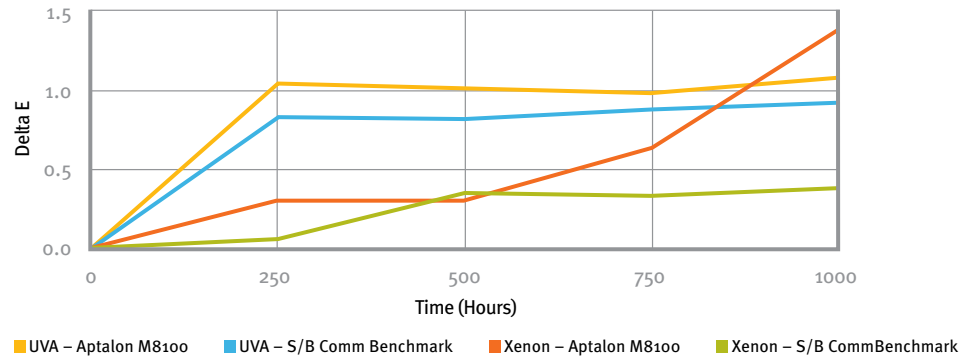


FEATURES & BENEFITS

- EXCELLENT DURABILITY FOR ACCELERATED WEATHERING PERFORMANCE IN PAINTS & COATINGS
- AMBIENT CURE AND CAPABLE OF LOW THERMAL BAKE FOR INCREASED PERFORMANCE PROPERTIES
- SELF-CROSSLINKING FOR IMPROVED EFFICIENCY WITH PAINTING CONTRACTORS



Aptalon™ M8100 Accelerated Weathering



Aptalon™ M8100 exhibits comparable accelerated weathering performance for color retention

COATING HARDNESS TESTING – 7 DAY/30 DAY AMBIENT CURE

| Topcoat | Primer | Topcoat Film (μ)/mils. | Pencil Hardness ASTM D3363 | König Hardness ASTM D4366 |
|-------------------|--------|------------------------|----------------------------|---------------------------|
| Aptalon™ M8100 | Epoxy | 53/2.1 | 5H/5H | Topcoa |
| S/B, 2K Benchmark | Epoxy | 53/2.1 | 3H/3H | Topcoa |

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