

ESSENTIAL R4150

ALIPHATIC POLYURETHANE DISPERSION

DESCRIPTION

Essential R4150 is a caprolactam-based polyurethane dispersion designed to give excellent flexibility to the coating. This aliphatic polyurethane dispersion is an excellent choice for coatings that require excellent mar and scratch resistance. It can be modified with acrylics for desired properties.

R4150 exhibits excellent exterior durability and can be used to produce both clear and pigmented coatings.

This product is not fully commercial but pilot plant samples are available for testing.

KEY BENEFITS

- Mar and Scratch Resistance
- Low VOC
- High Elongation
- Flexibility

TYPICAL PROPERTIES*

Appearance	Translucent
pH	7.5
Solids, % by Weight	34.0
Solids, % by Volume	30.8
Viscosity, cP @ 25°C	50
Density Lbs./Gal.	8.72
VOC Level (As Supplied)	
Lbs./Gal.	1.31
G/L	157
Particle Charge	Anionic
Particle Size	Colloidal
Acid Number	25

**These values should not be interpreted as specifications.*

Visit us on the web at www.essentialrmd.com

*DISCLAIMER: The information and recommendations contained herein are based on data believed to be correct. The information is offered solely for the customer's consideration, investigation and verification because of numerous factors beyond our control affecting the results of the use of products, Essential Industries, INC. makes no warranty of any kind, expressed or implied, including those of merchantability and fitness for a particular purpose, other than that the product conforms to its applicable current standard specification. The manufacturer's only obligation shall be to replace such quantity of the product proven to be defective.

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TECHNICAL DATA

R4150

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ESSENTIAL R4150 FILM PROPERTIES

All tests were performed on coatings kept at 77°F and 50% RH for seven days before testing.

Tensile Strength, PSI	2000
Elongation at Break, %	400
Tests Performed on Aluminum Panels (1-Mil Dry Films)	
König Hardness (Seconds)	61