

# ESSENTIAL R4231

## n-MP-FREE POLYURETHANE DISPERSION

### DESCRIPTION

Essential R4231 was designed to have a high degree of hardness and flexibility. It can be used alone or in combination with acrylics for wood and plastic applications. To further upgrade these properties, the coating can be cross-linked with a polyfunctional aziridine or trimer.

R4231 exhibits excellent durability and can be used to produce both clear and pigmented coatings.

### KEY BENEFITS

- Film Hardness And Toughness
- Excellent Adhesion
- Exterior Durability
- Abrasion Resistance
- n-MP Free

### TYPICAL PROPERTIES\*

Appearance	Translucent
pH	7.8
Solids, % by Weight	34.0
Solids, % by Volume	28.2
Viscosity, cP @ 25°C	50
Density Lbs./Gal.	8.8
VOC Level (As Supplied)	
Lbs./Gal.	2.7
G/L	324
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](http://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.

F0409

TECHNICAL DATA

R4231

# ESSENTIAL R4231

## ESSENTIAL R4231 FILM PROPERTIES

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

Tensile Strength, PSI	2500
Elongation at Break, %	30

### Tests Performed on Aluminum Panels (1-Mil Dry Films)

Konig Hardness (Seconds)	100
Grit Feed Taber Abrasion (Mg Loss, 500 Cycles, 1000g)	14