

ESSENTIAL R4105

WATERBORNE ALIPHATIC POLYURETHANE DISPERSION

DESCRIPTION

Essential R4105 is an aliphatic polyurethane dispersion specifically designed for superior mar resistance. R4105 was designed for topcoat applications where flexibility and a high degree of hardness are required. R4105 is perfect for formulating into wood coatings for furniture and flooring, as well as coatings for concrete and metal.

Essential R4105 is compatible with acrylic emulsion and is useful in improving the mar resistance, toughness and flexibility of the coating.

KEY BENEFITS

- Mar Resistance
- Hardness
- Toughness

TYPICAL PROPERTIES*

Appearance	Translucent
pH	8.0
Solids, % by Weight	33.0
Solids, % by Volume	29.9
Viscosity, cP @ 25°C	150
Density Lbs./Gal.	8.7
VOC Level (As Supplied)	
Lbs./Gal.	2.70
G/L	324
Particle Charge	Anionic
Acid Number	24.7

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

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ESSENTIAL R4105 FILM PROPERTIES

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

Tensile Strength, PSI	3800
Elongation at Break, %	100
Tests Performed on Aluminum Panels (1-Mil Dry Films)	
Konig Hardness (Seconds): 1 Day, 7 Day	97, 113
Taber Abrader (Mg Loss, CS10, 500 Cycles, 1000g)	12