

ECCOTHANE R4100

POLYURETHANE DISPERSION

Eccothane R4100 is an aliphatic polyurethane dispersion that is designed for topcoat applications where flexibility and a high degree of hardness are required. Coatings formulated with R4100 exhibit excellent adhesion to concrete, wood, metal and a variety of plastics including ABS, polycarbonate, flexible and rigid PVC and polyurethane.

KEY BENEFITS

- Film hardness and toughness
- Excellent adhesion
- Exterior durability
- Abrasion resistance

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.

TYPICAL PROPERTIES*

Appearance	Translucent
pH.....	8.0
Solids, % by Weight	33
Viscosity, cps @ 25°C	< 150
Density, lbs/gal	8.7
% VOC	15.0
Particle Size, nm	30
Particle Charge	Anionic
Acid Number	25
Freeze/Thaw Stability	Passes 3 cycles
König Hardness (secs).....	130

*These values should not be interpreted as specifications.



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Film Properties

ASTM D2370, "Standard Test Method for Tensile Properties of Organic Coatings"

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

Tensile Strength, PSI 2,000

Elongation at Break, %..... 195

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

König Hardness (Seconds) 1 Day, 7 Day90, 130

Grit Feed Taber Abrasion (Mg Loss, 500 Cycles, 1000g) 12