

ESSENTIAL R6025

SELF CROSS-LINKING WATERBORNE ACRYLIC/URETHANE POLYMER

Essential R6025 is an n-MP-free version using our proprietary self cross-linking urethane/ acrylic technology.

Essential R6025 can be formulated to pass MFMA criteria for water-based wood finishes. These coatings exhibit outstanding durability and gloss retention because of the polycarbonate backbone in the polyurethane component of the polymer.

Essential R6025 also is a great candidate to create topcoats for wood furniture and kitchen cabinets because of its excellent chemical and stain resistance properties.

Essential R6025 offers the ability to formulate coatings to < 250 g/l.

KEY BENEFITS

- n-MP-free, self cross-linking polymer
- Outstanding gloss retention
- Exceptional chemical resistance
- Outstanding mar and scratch 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	Off-White to Tan Emulsion
pH	8.0
Solids, % by Weight	33.0
Solids, % by Volume.....	31.6
Viscosity, cP @ 25°C -	
Brookfield, LV2, 60rpm	< 25
Density, Lbs./Gal.	8.7
VOC Level (As Supplied)	
Lbs./Gal.	0.83
G/L	< 100
MFFT, °C	23
Freeze/Thaw Stable	Passes 3 Cycles

*These values should not be interpreted as specifications.



The Spark of Innovation

Visit us on the web at
www.essentialpolymers.com

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Performance Information

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

Konig Hardness (Seconds) 1 Day, 7 Day 121, 149

Taber Abrasion (CS-10 wheels, 250 Cycles, 500g) 5.9 mg

Tests Performed on Maple Veneer (3 Coats, 1-Mil Dry Per Coat)

1 Hour Covered Spot Test

Water.....No Effect

50% EthanolSlight swelling, fully recovered

70% IPA.....Slight swelling, fully recovered

Formula 409Slight swelling, fully recovered

10% Ammonia HydroxideSlight swelling, fully recovered

10% NaOHSlight swelling, fully recovered

5% HClNo Effect

5% BleachNo Effect

Boiling Water/Hot Ceramic Mug* No visual damage

*Boiling water is dripped on panel and ceramic mug containing water initially at 100 C is placed on top of water spot for 20 mins.



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