

ESSENTIAL R6015

SELF-CROSS-LINKING

URETHANE ACRYLIC POLYMER

DESCRIPTION

Essential R6015 is a single component, self-cross-linking, water-based urethane acrylic polymer. It can be formulated into low VOC coatings which show exceptional durability, chemical, mar and scuff resistance.

Formulations based on R6015 dry rapidly, allowing for several coats to be applied during the same day. It shows excellent adhesion to concrete and wood.

KEY BENEFITS

- Low VOC Demand
- One Package, Self-Cross-Linking
- Exceptional Chemical Resistance
- Outstanding Mar and Scuff Resistance
- Fast Dry

TYPICAL PROPERTIES*

Appearance	Off-White Emulsion
pH	7.0
Solids, % by Weight	36.5
Solids, % by Volume	33.4
Viscosity, cP @ 25°C - Brookfield, LV2, 60rpm	20
Density, Lbs./Gal.	8.7
VOC Level (As Supplied)	
Lbs./Gal.	1.1
G/L	132
Freeze/Thaw Stable	Protect From Freezing

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

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F0409

TECHNICAL DATA

R6015

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STARTING POINT FORMULATION

Essential R6015 - Clear Formulation

<u>MATERIALS</u>	<u>POUNDS</u>	<u>GALLONS</u>
ESSENTIAL R6015	834.9	95.9
Premix Next Three Items:		
Water	15.0	3.5
CoatOSil® 1211	16.8	0.10
BYK® 028	3.3	0.50
	870.0	100.0
Formulation Attributes:		
Solids, % by Weight	37.0	
Solids, % by Volume	34.8	
Viscosity, CP	30.0	
pH	7.20	
Density	8.70	
Calculated VOC (Excluding Water)		
Lbs./Gal.	1.09	
G/L	131	

PERFORMANCE INFORMATION

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

Tensile Strength, PSI	2860
Elongation at Break, %	90

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

Konig Hardness (Seconds)
1 Day -72
7 Day-72

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

Water	No Effect
Soda	No Effect
Beer	No Effect
Formula 409	Slight Film Damage
100% Ethanol	Softening, Full Recovery
50% Ethanol	Slight Softening, Full Recovery
70% Isopropyl Alcohol	Softening, Full Recovery

SUPPLIER INFORMATION

<u>Product</u>	<u>Description</u>	<u>Supplier</u>
Essential R6015	Polyurethane Dispersion	Essential Industries
BYK® 028	Defoamer	BYK Chemie
CoatOSil® 1211	Leveling Agent	GE Advanced Materials