

ESSENTIAL R5809

STAIN-RESISTANT ACRYLIC POLYMER

DESCRIPTION

Essential R5809 is an acrylic polymer designed for the formulation of stain-resistant waterborne sealers and coatings. Formulations based on R5809 will give excellent resistance to coffee, iodine, mustard, tea and many other staining agents. Formulated products exhibit outstanding mar resistance and toughness over substrates such as wood, concrete, plastic and metal. These products form fast-drying, hard films which are exceptionally clear and glossy with fast recoatability, water resistance and excellent leveling.

KEY BENEFITS

- Excellent Stain Resistance
- Fast-Drying
- Clarity
- Hard Film

TYPICAL PROPERTIES*

Appearance	Milky-White Emulsion
pH	9.0
Solids, % by Weight	40.0
Solids, % by Volume	37.0
Viscosity, cP @ 25°C	70
Tg, °C	68
Density, Lbs./Gal.	8.7
VOC Level (As Supplied)	
Lbs./Gal.	0
G/L	0
Acid Number	26
Freeze/Thaw Stable	Passes 3 Cycles

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

Visit us on the web at 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

R5809

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STARTING POINT FORMULATIONS

Essential R5809 / R4188 Blend Clear Wood Sealer / Topcoat

<u>MATERIALS</u>	<u>POUNDS</u>	<u>GALLONS</u>
Essential R5809	492.3	56.45
Essential R4188	129.6	14.72
Dynol® 604	3.4	0.41
Tego® Foamex 800	2.0	0.23
Premix Next Three Items:		
Water	129.9	15.6
Dowanol® DPM	17.2	2.17
Dowanol® DPnB	44.3	5.86
Then Add:		
Jonwax® 26	29.0	3.53
Tego® Glide 440	1.6	0.20
Tego® Foamex 800	2.0	0.23
Zonyl® FSJ	0.9	0.09
Tafigel PUR 40	4.5	0.51
	856.7	100.00
Formulation Attributes:		
Solids, % by Weight	30.3	
Solids, % by Volume	27.6	
Viscosity, Seconds Z#2	35-40	
Calculated VOC (Excluding Water)		
Lbs./Gal.	1.99	
G/L	238	

Essential R5809 Clear Wood Lacquer

<u>MATERIALS</u>	<u>POUNDS</u>	<u>GALLONS</u>
Essential R5809	650.0	74.54
BYK® 025	2.5	0.31
Premix Next Two Items:		
Water	91.1	10.93
Dowanol® DPnB	78.0	10.32
Tego® Glide 440	2.0	0.24
Jonwax® 26	27.0	3.29
Acrysol® RM-825	3.2	0.37
	853.8	100.00
Formulation Attributes:		
Solids, % by Weight	31.4	
Solids, % by Volume	28.7	
Viscosity, Seconds Z#2	35	
pH	8.7	
Density	8.5	
Calculated VOC (Excluding Water)		
Lbs./Gal.	0.97	
G/L	116	

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PERFORMANCE INFORMATION

Tests Performed on Oak Veneer After a Seven Day Dry (2 Coats, 1-Mil Dry Per Coat)
1 Hour Covered Spot Test (Initial, Recovered)

Water	No Effect
50% EtOH	Moderate, Slight
70% IPA	Moderate, Complete Recovery
KCMA Soap Solution	No Effect

SUPPLIER INFORMATION

Product

Essential R5809
Essential R4188
Jonwax® 26
Surfynol® CT-324
BYK® 025
Dowanol® DPnB
Dowanol DPM
Tego® Glide 440
Acrysol® RM-825
Dynol® 604
Tego® Foamex 800
Zonyl® FSJ
Tafigel® PUR 40

Description

Emulsion
PUD
Wax Emulsion
Dispersant
Defoamer
Solvent
Solvent
Mar Inhibitor
Thickener
Wetting Agent
Defoamer
Fluorosurfactant
Thickener

Supplier

Essential Industries
Essential Industries
Johnson Polymer
Air Products
BYK Chemie
Dow Chemical
Dow Chemical
Tego
Rohm & Haas
Air Products
Tego Chemie
Dow Chemical
Ultra Additives