



ADVANCED POLYMER, INC.

GET THE API ADVANTAGE . . .

API-WP30C

API-WP30C is a low VOC, hydrophobic, non-silicone waterborne emulsion specifically designed to impart water repellency and beading on wood. API-WP30C may also be applied to other architectural surfaces. API-WP 30C produces a clear finish. API-WP30C will impart pronounced and long lasting water beading not yet seen with other repellents, water-borne or solvent-borne.

CHARACTERISTICS

Protects Wood

Excellent “vehicle” for trans oxide dispersions commonly used in wood stains

Water Resistant Finish Prevents Water Staining/Wear

Non-yellowing... Assures Color Stability

Effective on Porous and Semi-Porous Building Materials

May be Formulated Into Surface Coatings/Finishes

Allows substrate to “Breathe”

RECOMMENDATIONS

The pH of prepared dilutions of API-WP30C should not drop below 7.0. If the pH of the dilution falls below 7.0, instability may occur. Add API-WP30C as the last component to the formulation; make sure that the pH of the system that API-WP30C is added to is greater than 7.0.

API-WP30C and formulations containing API-WP30C are sensitive to shear. High speed mixing, high pressure flow through a small nozzle or filter could cause a precipitate to form producing instability.

PACKAGING

API-WP30C is available in 8 oz samples and 441 lb drums..

TYPICAL PROPERTIES

Appearance:	White Liquid
Solid Content:	40%
pH:	8.5
Specific Gravity (25°C):	1.00
Volatile Organic Content:	<100g/L

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Testing the Competition– Testing Procedure ASTM-5401

We tested a variety of standard retail products against API-WP30C as an additive to an acrylic wood stain base (no water repellent additive)

ASTM-5401			
Product	% WRE (Water Repellency Efficiency)	% WA (Water Absorption)	Rating
	N.A.	25.14	
Retail A	59.17	9.8	
Retail B	62.57	8.88	
Retail C	47.08	11.98	
Retail D	73.06	6.41	
Retail E	31.71	15.7	
Retail F	50.69	12.27	
Retail G	67.44	6.7	
API	87.91	2.89	

ASTM-5401 RESULTS			
Product	% WRE (Water Repellent Efficiency)	% WA (Water Absorption)	Rating
API	87.91	2.89	1st
Retail F	73.06	6.41	2nd
Retail G	67.44	6.7	3rd
Retail D	62.57	8.88	4th
Retail A	59.17	9.8	5th
Retail H	50.69	12.27	6th
Retail C	47.08	11.98	7th
Retail E	31.71	15.7	8th



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Swellometer Test- • ASTM D4446

API- WP30C against a Retail Wood Stain with Water Repellent (WRE- Water Repellent Efficiency)

<p>Results with API-WP30C additive to general wood stain base -vs- Retail Wood Stain with Water Repellent</p>
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Control A: Retail Premium Wood Stain with Water Repellent : Average WRE: 9.14

Added to Premium Solid Wood Stain Base Wood

API- WP30C 10% solids : Average WRE: 90.66

API- WP30C 5% solids : Average WRE 80.51

Control B:Retail Semi-Transparent Wood Stain with Water Repellent: Average WRE: 7.05

Added to Semi-Transparent Wood Stain Base

API- WP30C 10% solids : Average WRE: 61.63

API- WP30C 5% solids : Average WRE 30.92

API-WP30C

Initial

1. Retail Product A with Water Repel-
2. API-WP30C additive with General Acrylic wood stain base



After 1 hour

1. Retail Product A with Water Repel-
2. API-WP30C additive with General Acrylic wood stain base



After 2 hours

1. Retail Product A with Water Repel-
2. API-WP30C additive with General Acrylic wood stain base



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I want to know more!

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You may also be
interested in . . .

AP - WP30
AP - WP40

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