

Integrity Biochem's TegraP&C line of bio-based paint surfactants was developed as an eco-conscious alternative to conventional ethoxylate chemistry in pigment dispersion and paints & coatings.

PROPERTIES:

All properties evaluated at 25°C ± 1°C

	ICS-031	ICS-032
RCI	94%	61%
pH	8.0-9.0	6.0-8.0
SG	1.044	1.045
Density	8.697	8.705
Freeze Point	0C	0C
Pour Point	3C	3C
Flash Point	>93C	>93C

The adoption of sustainable surfactants offers numerous advantages for both the environment and the end-users. Integrity Biochem manufactures a line of bio-based paint surfactants using eco-friendly processes and renewable resources, reducing the carbon footprint associated with their production. The TegraP&C product line in paints, inks, and coatings aligns with eco-conscious consumer preferences, contributing to reduced environmental impact. These products exhibit improved performance and compatibility with water-based systems, further enhancing their appeal in sustainable formulations, while also meeting regulatory requirements for zero volatile organic compounds (VOCs) and hazardous substances.

- APEO Free & Bio Based
- Equal Performance to Established Synthetics
- Novel, Patented Technology
- Water Soluble

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Bio-Based Paint Surfactants

Surfactant	EGGSHELL WHITE			EGGSHELL DEEP BASE		
	Standard	ICS- 031	ICS-032	Standard	ICS-031	ICS-032
Surfactant level lbs./ 100 gallons	4.0	4.0	4.0	4.0	4.0	4.0
Surfactant lbs. solid / 100 gallons	3.6	0.9	1.4	3.6	0.9	1.4
Viscosity- KU - ASTM D562	94	97	96	99	97	94
ICI, poise - ASTM D4287	0.7	0.6	0.6	1.0	0.8	0.8
Contrast Ratio, 3 mils, ASTM D2805	0.958	0.968	0.968	0.897	0.903	0.901
CIELAB Values, ASTM D2244 L*	96.40	96.44	96.48	95.11	95.15	95.28
a*	-0.84	-0.81	-0.80	-0.91	-0.86	-0.86
b*	1.09	1.08	1.09	1.71	1.51	1.54
Gloss 60, ASTM D523	4.8	4.6	4.8	2.6	2.5	2.6
Color Acceptance	Pass	Pass	Pass	Pass	Pass	Pass
Tint Strength, Y Reflectance	31.1	31.3	31.2	15.1	15.1	15.2
Scrub Resistance, ASTM D2486, Cycles Failure	738	765	757	557	576	571
Heat Stability, ASTM D1849: 2 Weeks @ 140F (KU)	93	102	101	94	93	88

