

SureTac 1913

80°C Rosin Ester Resin Emulsion

SureTac 1913 is a solvent-free waterborne emulsion of a light colored rosin ester resin. This is a non-acid stable resin emulsion for use in tackifying various polymer latexes. This emulsion may or may not need stabilizing depending on the latex being used. For stabilization, we suggest using 3 – 4 parts of 25% nonylphenol ethoxylate surfactant, such as Igepal CO-630, to the tackifier system prior to mixing with the latex. When formulated into adhesives, this tackifier gives performance properties approaching hydrogenated wood rosin esters.

FDA Status

Complies with 21CFR175.105

ApplicationsBlending with natural rubber latex, natural
rubber/SBR latex blends

Typical Properties

Total Solids	56.0 ± 1.0
Viscosity; LVF #3 @ 30 RPM @ 23°C	500 ± 100 cps
pH	10.0 ± 1.0
Softening Point	80°C
Average Particle Size	< 1.0 micron
Gardner Color, Neat Resin	<4

Tackifier response in 2-Ethylhexyl Acrylate Polymer Latex:

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
Control – No tackifier	2.2
15 Parts SureTac 1913 (dry/dry)	2.1
30 Parts SureTac 1913 (dry/dry)	3.1
50 Parts SureTac 1913 (dry/dry)	3.4
Loop Tack, lb./in ² (2)	
Control – No tackifier	1.6
15 Parts SureTac 1913 (dry/dry)	2.4
30 Parts SureTac 1913 (dry/dry)	2.8
50 Parts SureTac 1913 (dry/dry)	3.2
Shear; ½" x ½" x 500 gms; hours (3)	
Control – No tackifier	5.1
15 Parts SureTac 1913 (dry/dry)	2.3
30 Parts SureTac 1913 (dry/dry)	1.6
50 Parts SureTac 1913 (dry/dry)	1.9

/continued

This product information is presented in good faith and is to the best of our knowledge, accurate. It is intended to be used as a guide and is not to be construed as a specification for products described herein. Dyna-Tech does not guarantee satisfactory results in any application from reliance upon this information and assumes no liability for any loss or damage arising out of its use. Dyna-Tech recommends that the user of our products thoroughly test them under end use conditions to assure that they meet the requirements of intended applications.

Tackifier response in a 60/40 SBR Latex (25% Styrene/75% Butadiene)/Natural Rubber Latex Blend:

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
120 Parts SureTac 1913 (dry/dry)	2.8
150 Parts SureTac 1913 (dry/dry)	3.4
180 Parts SureTac 1913 (dry/dry)	4.4
Loop Tack, lb./in ² (2)	
120 Parts SureTac 1913 (dry/dry)	4.0
150 Parts SureTac 1913 (dry/dry)	4.2
180 Parts SureTac 1913 (dry/dry)	4.4
Shear; ½" x ½" x 500 gms; hours (3)	
120 Parts SureTac 1913 (dry/dry)	10.3
150 Parts SureTac 1913 (dry/dry)	9.6
180 Parts SureTac 1913 (dry/dry)	11.5

Tackifier response in SBR Latex (25% Styrene/75% Butadiene) Latex:

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
120 Parts SureTac 1913 (dry/dry)	3.1
150 Parts SureTac 1913 (dry/dry)	4.1
180 Parts SureTac 1913 (dry/dry)	5.0
Loop Tack, lb./in ² (2)	
120 Parts SureTac 1913 (dry/dry)	3.6
150 Parts SureTac 1913 (dry/dry)	3.0
180 Parts SureTac 1913 (dry/dry)	2.1
Shear; ½" x ½" x 500 gms; hours (3)	
120 Parts SureTac 1913 (dry/dry)	3.5
150 Parts SureTac 1913 (dry/dry)	4.7
180 Parts SureTac 1913 (dry/dry)	6.1

Samples were prepared by transfer coating and drying 2½' @ 100°C

- (1) PSTC-1 modified
- (2) TLMI Loop Tack, 1 in² contact area, 12 ipm separation
- (3) PSTC-7