



ADHESIVES & COATINGS, INC
QURETECH®
TECHNICAL DATA SHEET

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 www.quiretech.com

Providing Advanced Water-based and Energy
 Curable Coatings and Adhesives
 For Over 25 Years.
 Clean, Safe, Worker Friendly

SureTac 1412

25° C Rosin Ester Resin Emulsion

A solvent-free waterborne emulsion of rosin ester resin, formulated for tackifying various latex polymers. This emulsion is generally stable when mixed with latexes that have a pH greater than 7.0. For mixing with latexes that have a lower pH or systems that are highly ionic, this tackifier emulsion may need stabilization. For stabilization, we suggest adding 5% of a nonylephenol ethoxylate surfactant like Igepal CO-630 to the tackifier system prior to mixing with the latex.

FDA Status Complies with 21CFR175.105

Applications Blending with SBR and acrylic latexes

Typical Properties

Total Solids	54.0 ± 1.0
Viscosity; LVF #3 @ 30 RPM @ 23°C	300 ± 100 cps
pH	9.5 ± 1.0
Softening Point	25°C
Average Particle Size	< 0.5 micron

Tackifier response in a 2-EHA Acrylic Latex:

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
Control – No tackifier	2.3
15 PHR	2.9
30 PHR	3.0
50 PHR	2.9
Loop Tack, lb./in ² (2)	
Control – No tackifier	1.7
15 PHR	1.6
30 PHR	1.9
50 PHR	1.5
Shear; ½" x ½" x 500 gms; hours (3)	
Control – No tackifier	5.1
15 PHR	1.2
30 PHR	.5
50 PHR	.2

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

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
120 PHR	3.8
150 PHR	2.8
180 PHR	3.1

/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.



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Tackifier response in an SBR/Natural Rubber Blend – Continued

Loop Tack, lb./in ² (2)	
120 PHR	2.3
150 PHR	1.4
180 PHR	1.3
Shear; ½" x ½" x 500 gms; hours (3)	
120 PHR	1.1
150 PHR	.5
180 PHR	.3

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

Web:	1 mil Mylar®
Coatweight; dry mils	0.75
180° Peel Adhesion, lb./in, 30' dwell (1)	
120 PHR	2.0
150 PHR	1.9
180 PHR	1.8
Loop Tack, lb./in ² (2)	
120 PHR	2.7
150 PHR	2.9
180 PHR	2.6
Shear; ½" x ½" x 500 gms; hours (3)	
120 PHR	.2
150 PHR	.1
180 PHR	.1

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

- (1) PSTC-101
- (2) TLMI Loop Tack, 1 in² contact area, 12 ipm separation
- (3) PSTC-107

May 07

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