



Issued January 14, 2019

SUBJECT: Tower Sealants
Gainesville, GA

OBJECTIVE: To perform ASTM C-920 Class 25 Joint movement testing (ASTM C-719) on Tower Sealant's **RSS 002-116** formulation (Sold as AU-1).

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REPORTED BY: R Queenan, R Stannard

BACKGROUND: **Received formulation RSS 002-116 (AU-1) for testing.**

CONCLUSIONS: RSS-002-116 (AU-1) passed C-920 to all ASTM Standard substrates and can be listed as a Class 25 sealant.



Table I: C 920 Class 25 Testing

Claims	Class 25
Lot number	RSS-116 (AU-1)
Type	Ac U
Formulation Characteristics	
pH	8.35
Consistency (sec) 50 psi	22.6
Extrusion Rate (g/sec)	13.5
After 30 d @ 50° C.	
pH	8.3
Consistency (sec) @ 50 psi	25.5
Extrusion Rate (g/sec)	12.6
Flex (180° bend, ½ in mandrel) [C-793]	
After 250 hours WOM -15°F	Pass
± 25% Joint Movement [C-719]	
Aluminum	Pass-1"A
Glass	Pass - Glass broke x 6
Cement	Pass-1" SF
Dry Peel Adhesion (pli) [C-794]	
Aluminum	28-38 FD/C
Glass	35-44 FD/C
Cement	*6-10 A *Substrate failed
Wet Peel Adhesion (pli) [C-794]	
Aluminum	16-24 C
Glass	21-24 C
Cement	10-20 C
Channel Slump (mm) [C-639]	
	0
Tack-Free Time (min) [C-679]	
	60
Hardness [C-661]	
Avg.	17, 14, 17, 17, 14, 14 15 ± 2
Weight Loss (%) [C-1246]	
	6/1

- Dry adhesion was measured after curing for one week at room temperature, followed by 2 weeks at 50°C. Wet adhesion was measured after an additional one week water soak. Failure modes for adhesion testing are C = Cohesive, LC = Light Cohesive, A = Adhesive, and SF = Substrate Failure.