



AFC 8100

LOW Tg ADHESIVE, UNDERWATER CURE

TECHNICAL DATA

Product Description

AFC 8100 is a room temperature curing two part polyurethane system designed to be used for high performance adhesive applications where low stress over a wide temperature range is required. This one to one mix ratio product cures at room temperature in 12-24 hours to a tough and flexible polymer.

APPLICATIONS

- Underwater applications

FEATURES

- Two component system
- Room temperature cure
- Moisture resistant
- Flexible

RECOMMENDED SUBSTRATES

UNCURED PROPERTIES*		
Property	Value	Test Method
Solvent Content	No Nonreactive Solvents	N/A
Composition, PT A:B	Isocyanate : Polyol	N/A
Mixed Color	Clear	N/A
Viscosity @ 25C, mixed	Low Sag	N/A
Specific Gravity @ 25C, PT A	1.0	QPTEST002
Specific Gravity @ 25C, PT B	0.93	QPTEST002
Mix Ratio by Volume, PT A:B	1:1	N/A

CURED MECHANICAL PROPERTIES*		
Property	Value	Test Method
Hardness, Shore A	75	QPTEST012
Tensile Lap Shear, Aluminum, psi	800	N/A
Tensile Strength, psi, N/(mm ²)	>1,000	N/A
Elongation @ 25C, %	>200	N/A
Moisture Resistance	Excellent	N/A
Operating Temperature, C	-50 to 120	N/A
Dielectric Strength, Volt/mil	400	N/A
Modulus 100 (Mpa)	7-10	N/A
Tg, C	-55	N/A

CURE OVERVIEW*		
Property	Value	Test Method
Work Life, 20 g @ 25C, min	10	N/A
Gel Time, 20 g @ 25C, min	40	N/A
Cure Time @ Room Temperature, hr	12-24	N/A

Storage:

Store material in cool, dry location at a temperature between 10°C to 28°C. Keep from freezing. Material is sensitive to moisture. Refer to packaging specific quote for shelf life information. Consult MSDS for safe handling recommendations.

Revision Number: 1-New Date: 15 December, 2015

AquaBond LLC, 6444 E Spring St #275, Long Beach, CA 90815 www.aquabondadhesives.com Phone: 714-961-1420

AquaBond, LLC makes no express or implied warranties or merchantability, fitness or otherwise with respect to this product. In addition, while the information contained herein is believed to be reliable, no warranty is express or implied regarding the accuracy of the results to be obtained from the use thereof. The properties given are typical values and are not intended for use in preparing specifications. User should make their own test to determine the suitability of this product for their own purposes.