

TITAN BONDING SYSTEMS

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TECHNICAL BULLETIN – ARG-210

High Modulus Adhesives

As Auto manufacturers continue to utilize the front and back windscreens as an integral part of the torsional strength of the vehicle body, urethane manufacturers must engineer urethane adhesives that meet the high dynamics of stress versus strain.

The term, **MODULUS**, depicts the amount of torsional stiffness an adhesive will reach. At the same time these adhesives must allow enough movement utilizing precise elongation and durometer that will not cause stress cracking in the windshield assembly and enhance the sound dampening qualities in a fully cured state.

The following **TITAN Bonding System's** Urethane products for the Automotive Replacement Glass Market meet the specifications as **HIGH MODULUS** adhesives.

Windshield Urethane Adhesives

<u>Product</u>	<u>Description</u>	<u>Drive Away (75F/50%RH)</u>
TITAN 380	Regular Viscosity, Smooth & Creamy, Non-Sag properties, Lynx Approved	With Dual airbags = 5 hours With Single airbag = 3 hours
TITAN 660	Medium/High Viscosity, High Modulus, Smooth & Creamy, Non-Sag properties, Lynx Approved	With Dual airbags = 6 hours With Single airbag = 3 hours
TITAN 2000HV	Medium Viscosity, Quick Cure, High Modulus, Smooth & Creamy, Lynx Approved	With Dual airbags = 3 hours With Single airbag = 1 hour
TITAN 800EM	High Viscosity, High Decking, High Modulus, Smooth & Creamy, Non-Stringing properties, OEM Proven, Carlite & Lynx Approved	With Dual airbags = 8 hours With Single airbag = 4 hours
TITAN 700HV	Two Part System, Chemical Cure, Use at 40F or below, Lynx Approved	With Dual airbags = 1 hour With Single airbag = 30 min.

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The ADCO Products, Inc. Limited Warranty

We warrant our products to meet our published physical properties at the time of sale when tested according to our standards. Under this limited warranty, we will provide, at no charge, product in containers to replace any product proven to be defective when applied and tested according to our written instructions.

User shall determine the suitability of the product for its intended use and assume all risk and liability. **WE SHALL NOT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE, BEYOND PRODUCT REPLACEMENT DESCRIBED IN THIS LIMITED WARRANTY, AND IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES.**

Any and all claims that a product is defective must be made in writing within thirty (30) days after discovery of the defect and in no event more than one (1) year after the original shipment of the product by us. Failure to timely notify us of any claim constitutes an irrevocable waiver of such claim regardless of the circumstances. **THIS LIMITED WARRANTY IS THE USER'S SOLE REMEDY AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

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