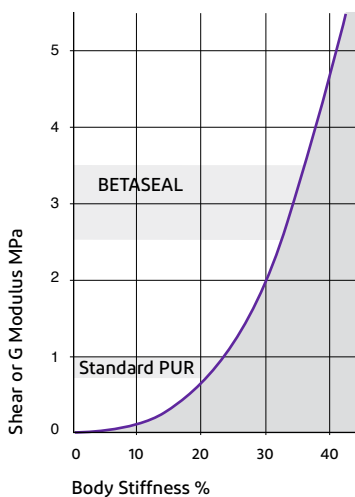


BETASEAL™ Adhesives Improve Vehicle Structure in Glass Bonding Applications

With a proven track record of providing exceptional performance, lowering costs and reducing assembly times, BETASEAL™ adhesives are used worldwide for the structural bonding and sealing of stationary vehicle glass, including panoramic roofs and liftgates, windshields, backlites, quarter glass, headliner bonding and more.

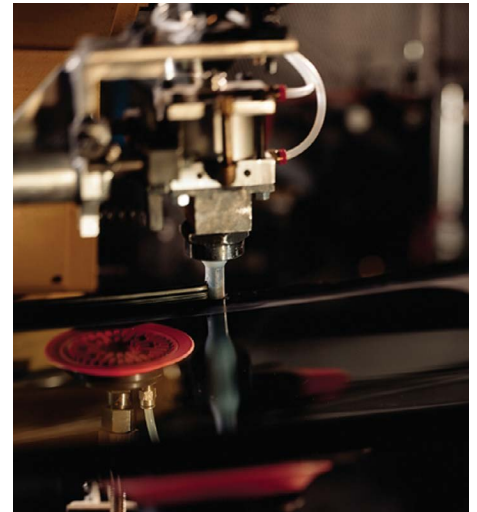


High modulus adhesives are stiffer than “standard modulus” adhesives, making the car body more rigid, and reducing noise, squeaks and rattles.

BETASEAL systems consist of BETAPRIME™ and BETASEAL primers, and BETASEAL urethane adhesives to provide a total solution for glass bonding applications. Innovative formulations provide a wide range of mechanical properties to suit all manufacturer requirements and are compatible with all vehicle production processes, including cold- and warm-applied systems. A wide variety of BETASEAL adhesives also are customized for after-market glass replacement.

BETASEAL™ adhesives are used worldwide for structural bonding and sealing of stationary glass in passenger vehicles, trucks, buses, rail coaches and off-road vehicles. The superior performance of these systems helps vehicles meet globally mandated safety requirements for barrier, rollover and roof crush regulations. Applied robotically or manually from standard or custom pumping equipment, BETASEAL adhesives and primers come in these formulations:

- QUICK FIX, or fixture-free
- Long open time primer
- High viscosity
- Primerless to paint
- Low conductive
- Non-conductive
- High modulus
- Uni-wipe
- Accelerated cure
- Glass and body cleaner
- Glass, plastic and body flange primers
- Surface activators



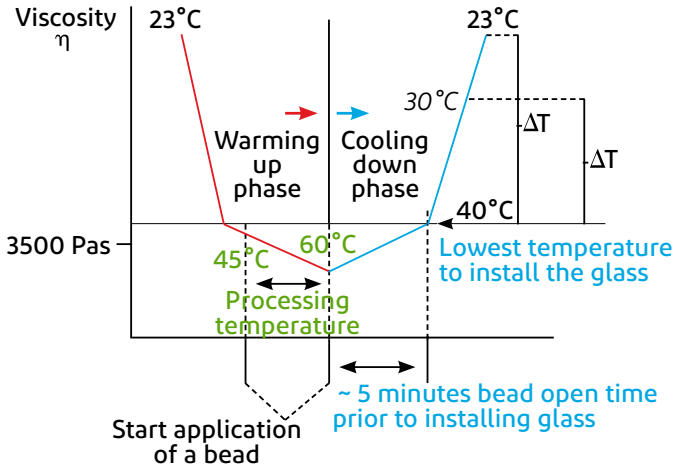
Applications

Windscreens
Backlites
Quarter glass
Modular roof assemblies
Sunroof assemblies
Glass hardware
Door glass
Mixed-material bonding

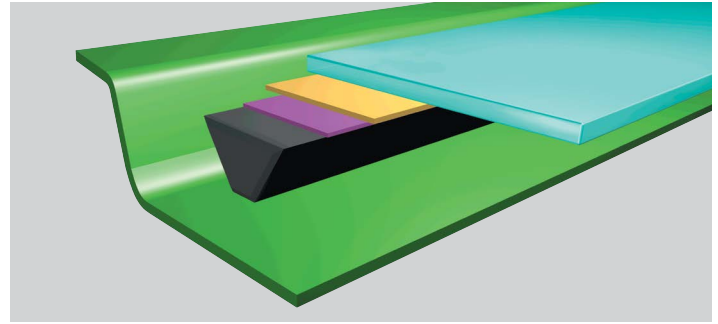
Product advantages and ROI

- Provide excellent performance on glass and ceramic substrates
- Formulations provide a wide range of mechanical properties to suit all vehicle requirements
- Formulations are developed to be compatible with all vehicle production processes, including cold- and warm-applied systems
- High performance to the toughest OEM durability specifications

QUICK FIX Performance Chart



QUICK FIX adhesives are developed with faster production rates in mind for better assembly efficiencies at the OEM.



Primerless-to-paint adhesives:

- Eliminate body primer
- Reduce VOCs
- Simplify glass bonding process
- Reduce production costs
- Decrease cycle time
- Decrease warranty claims

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