

# EV-Ready Glass Adhesive Systems

## BETASEAL™ Auto Glass Adhesives deliver OEM technology and performance to the EV/HEV aftermarket

BETASEAL™ Adhesive Systems are trusted by automakers throughout the world to bond today's most advanced vehicles, including zero-emission electric vehicles (EVs) and hybrid autos and trucks (HEVs), as well as vehicles with Advanced Driver Assistance Systems (ADAS).

The same technologies used in BETASEAL™, and specified for OEMs, are "EV-Ready" and are available today for aftermarket auto glass replacement and car body repair.

### New designs place more demands on aftermarket adhesives

EV, HEV and ADAS equipped vehicles place more demands on auto adhesives by employing more sophisticated auto glass and reducing vehicle body weight. DuPont has been, and will continue to be, a trusted partner in developing formulations that expeditiously meet challenges for both OEMs and the aftermarket.

### In ten years, one out of three cars will be an EV

Popularity for EVs and HEVs are growing at an exponential rate. According to recent analysis by Deloitte, EV sales will account for more than 31 million new cars sold in 2030. That means one out of every three new cars sold will be an EV.



## Customers judge a windshield replacement by the quietness of the ride

EVs have a quieter ride by design. As sound emitting from the drive train is reduced, sensitivity to noise, vibration and harshness (NVH) will increase. Wind and road noise will become more noticeable and bothersome.

Urethane adhesives used to bond auto glass to the body of an EV vehicle can play an important role in improving acoustics and delivering an enjoyable ride.

This is especially significant in auto glass replacement where a high-modulus adhesive can be employed to reduce vibration and the subsequent noise the vibration produces. This helps meet manufacturer requirements and customer expectations.



# BETASEAL™ Advanced-Cure Adhesives – your fast track to ADAS recalibration

Auto glass replacement and body repair frequently impact a vehicle’s ADAS sensor positioning. This requires the vehicle’s ADAS to be recalibrated before releasing the vehicle to the owner/driver. This increases the time needed to perform replacement work and increases the cost of replacement.

BETASEAL™ Advanced-Cure Adhesives have outstanding decking characteristics. During a static recalibration, this results in less auto glass movement, which means a more accurate reading. BETASEAL™ Advanced-Cure Adhesives also achieve minimum drive-away time faster, reducing idle time when performing a dynamic recalibration.

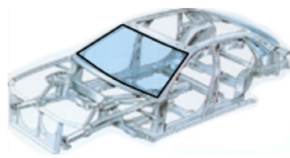
As the percentage of vehicles equipped with ADAS become more commonplace, the average installation time and cost for replacement increases. Time saved through the use of an advanced-cure adhesive can enable more replacements per shift.



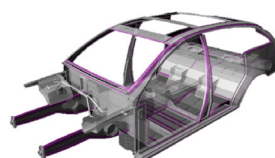
BETASEAL™ Adhesives feature a fast MDAT, allowing recalibration to be performed shortly after setting the replacement glass.

## Why DuPont?

### Global leadership in key OEM application areas



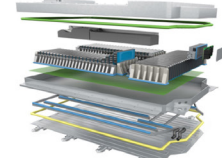
**Urethane Adhesives**  
for glass bonding systems



**Structural Adhesives**  
for lightweighting and safety

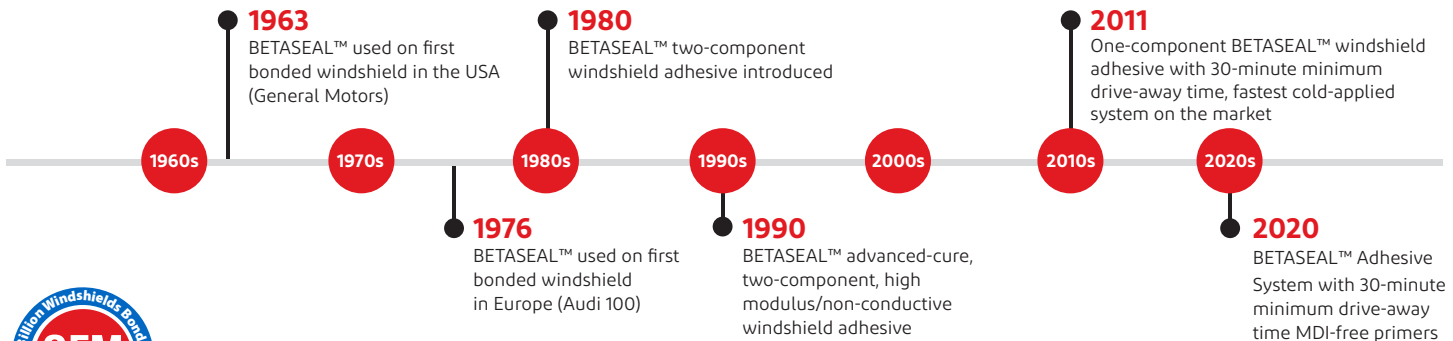


**Specialty Adhesives**  
for NVH for more enjoyable ride and durability



**Battery Adhesives**  
for thermal management and assembly

### Pioneers in leading edge auto adhesive innovation



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