

CRYSTIC®

CRESTABOND®

— STRUCTURAL ADHESIVES —

IN COMMERCIAL VEHICLES

TECHNOLOGY THAT TAKES THE LEAD



Increase
productivity
by over
50%
by bonding with
Crestabond

*actual data and image courtesy
of Solomons Commercial Vehicles, UK

Why is Crestabond the best joining solution for commercial vehicles?

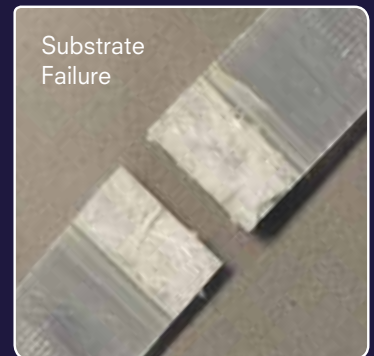
- Faster productivity - cost savings
- No primer - minimal surface preparation
- Weight, noise and vibration reduction
- Strong bond on composites, metals and plastics
- Fills gaps from 1mm to 50mm
- Excellent resilience and flexibility
- Resistant to water, petrol, diesel and salt spray
- Elimination of localised stress points
- Smooth, cosmetic surface finish
- No drilling required

Typical applications for Crestabond in and around a commercial vehicle



So, how strong is Crestabond?

Crestabond adhesives have been rigorously tested for bond strength using a wide variety of different substrates. For example, when bonding composites or plastics to metals, the composite or plastic will break under load before the adhesive fractures. Metal to metal bonds have high strengths and fail cohesively even without the use of a primer when broken under extreme loads. Crestabond can also be used to bond coated materials e.g. e-coat, however, the mode of failure will usually be removal of this coating.



Adhesive bonding is a reliable, proven and widely established technique for joining composites, metals and plastics

Direct bonding eliminates the need for traditional methods of joining two components together. Typically these are mechanical fixings such as bolts, rivets and screws.

As can be seen, from the example in Fig. 1, this joint will be highly stressed in the vicinity of the rivets (as shown by the arrows in the diagram) and failure tends to initiate in these areas of peak stress. Similar, localised stress points will occur with bolts and screws. A bonded joint however, will allow even distribution of the various load dynamics which the vehicle is likely to experience.

Crestabond is tough with excellent elongation and can handle vibration loads and differential CTE's (coefficients of thermal expansion) of 2 different substrates in demanding environments.

