



## TWEHA ADHESIVES DO NOT MELT AT HIGH TEMPERATURES!

Adhesive users are often under the false impression that all adhesives melt at high temperature.

The primary benefit sought after with TWEHA Adhesives is the ability to withstand weather. They perform excellent in rain, snow, and UV exposure without cracking or splitting. They maintain a pleasing aesthetic appearance in construction or repair of truck trailers, buses, boat and yacht building and are the preferred choice for bonding all thin panel construction.

TWEHA Adhesives can withstand extreme temperatures up to 200°C and down to as low as -40°C without deforming. However, one aspect determines what actual temperatures adhesives can really withstand and that is 'TIME'. The length of time the adhesive is exposed to extreme temperatures determines its lifespan and performance in application and this is a very important factor when specifying adhesives into applications If the adhesive is exposed to temperatures up to 200°C for intermittent period, we can confidently say that TWEHA Adhesives will withstand this degree of heat for short intermittent periods and will maintain its physical properties. However, if the adhesive will be applied in an environment where the temperature is at a constant 200°C then we would advise that the properties would most likely degrade over a shorter life span.

For example, if heated up to 150°C you would see very little change in the adhesive, even if held at this temperature for a longer time (45 minutes). At 200°C the adhesive will slowly become harder and less stretchy with time (30 minutes), and if it was heated up to a temperature beyond 300°C, you would quickly see the material become harder and less stretchy in a very short time, due to such extreme temperature conditions but it would not melt.

TWEHA Adhesives are made by polymers joining together with chemical bonds producing a crosslinked polymer structure. They may weaken at high temperatures, they don't actually turn liquid again.

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