

## American Coating Technologies

### UV Exposure Testing

**Background:** Using data obtained over time with AM 1949 poly urea, exposed and cycled per the ASTM method to the Q-uv Chamber and exposed at 45° facing South in South Florida Weathering, 500 hours of Q-uv exposure is estimated to be 30 months of South Florida exterior exposure. Thus, 1000 hours would be estimated to be 60 months of exterior exposure. Real world exposure compared to this estimation would be subject to many variables that cannot be controlled such as geographical latitude, altitude, wind, environmental contaminants, orientation of exposure, seasonal variations (temperature and amount of sun light), etc. In most cases, the South Florida location is much harsher than anywhere in the continental United States and the variables mentioned need to be taken into consideration as it relates to the location of the application.

### Results:

Property	500 Hrs - % change from	1000 Hrs - % change from
Tensile	+11	+10
Tear	+12	+8
Elongation	+2	+2