

# Enhanced UVC Lightguides



Loctite UVC Liquid Light guides transmits radiation down to a wavelength of 250nm. As a result, applications requiring UVC (surface cure) now also benefit from the advantages of these Light guides.

The conventional light guides for the UVC range are quartz fiber bundles, the core of an individual fiber consisting of pure quartz glass and the cladding of doped quartz glass.

In the wavelength range between 230 - 400nm the transmission is significantly higher.

\* The theoretical maximum angle of aperture  $2\alpha$  is  $50^\circ$  for this Light guide and only  $29^\circ$  for quartz/quartz fiber bundles.

\* Thus Liquid Light guides can transmit more power from conventional, non-coherent UV sources.

