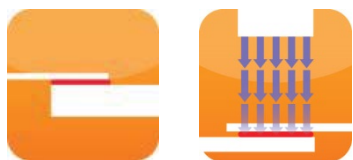


Dymax Multi-Cure® 621-T Adhesive

Dymax ECE-2000 Flood Lamp



Customer benefits

- Product withstands rough handling and extreme conditions
- Dymax 621-T bonds dissimilar materials with excellent adhesion
- Bond cures in 5-30 seconds, allowing product to move to next step in process without delay, resulting in lower processing costs

Dymax Multi-Cure 621-T makes emergency services equipment more rugged

A leading manufacturer of premium portable lighting was looking to make its safety torches more rugged – they are used by fire fighters, police officers and military troops in the field. Their engineers needed the torches to withstand rough handling and extreme conditions in the field, and to work in a wide range of environments, such as search-and-rescue or life-threatening situations. During product development of some new torches, they decided to fortify the lens and reflector housings by applying a sealant to bond the sub-assembly together.

Application engineers from Dymax worked closely with the customer's team to come up with an innovative solution. After examining and testing the customer's parts, **Dymax Multi-Cure® 621-T** was recommended to bond the glass lens to the reflector housing. The decision was made based on Dymax 621-T's ability to bond dissimilar materials, its fast cure, and excellent adhesion properties.

To bond the sub-assembly, the lens and reflector housing were placed into a small rotary system underneath a dispensing valve and Dymax 621-T was applied in a uniform bead into the bond line. Dymax application engineers suggested using a **Dymax 2000-EC Flood Lamp** to cure parts post-assembly, because it offered a large 8" x 8" curing area, as well as high-intensity curing in 5-30 seconds. The parts were assembled and then exposed to UV/visible light under the Dymax flood lamp. Rapid curing allowed the bonded parts to swiftly move onto the next step in the manufacturing process with virtually no down/wait time.

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The manufacturer was impressed with the technical expertise provided for a ruggedising adhesive. They were also very satisfied with Dymax Multi-Cure 621-T and with how the Dymax 2000-EC Flood Lamp enhanced their process by curing a large area in just a few seconds. This solution enabled faster processing, greater output, and lower processing costs.



Dymax Multi-Cure 621-T

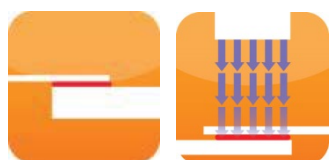
- Forms clear, hard bonds to glass, metal, phenolic resins, filled Nylon, ferrite, ceramic and other materials.
- High tensile strength
- Suited for rigid adhesive applications
- Clear, hard bonds
- Cures with UV light, heat or pre-applied activator

Applications include: Glass/metal bonding to phenolic and filled plastics

Dymax ECE-2000 Modular Flood Lamp System

- Ability to cure large area, up to 8" x 8" (20.3 cm x 20.3 cm)
- Fast curing time
- Safe bench top operation
- Optimized for DYMAX adhesives

Suitable for bench-top curing systems or integrated into automated assembly systems



Contact us for more information on our adhesives and UV curing equipment

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