

VALUE PROPOSITION

- Process Improvement:** Durable 3-dimensional mark with ability to fluoresce under black light ensured any tampering or loosening of connections was immediately visible, improving quality assurance processes
- Safety:** Quick inspection capability ensured that the equipment was always ready for use in emergencies or other critical needs, greatly enhancing overall operational safety
- Time & Labor Savings:** Enabled a faster and more efficient inspection process, significantly reducing time and labor costs required for maintenance resulting in annual savings of over \$7,500



PRODUCT

DYKEM® Cross Check™ Torque Seal® Tamper-Proof Indicator Paste

BOTTOM LINE

**Enhanced Safety, Quality Assurance, and Time Savings
Aerospace and Automotive Manufacturing:
Military Helicopters & Fire Engines**

APPLICATION

- Identification and tamper-proofing of all pneumatic, wiring, and hydraulic connections within the bodies of military attack helicopters, fire engine pumps, and ladder trucks.

ISSUE

- Both manufacturers faced challenges in monitoring the integrity of their pneumatic, wiring, and hydraulic connections using 2-dimensional marks from traditional markers. Regular maintenance inspections were time-consuming, and identifying tampered or faulty connections during unscheduled downtime was a significant issue, impacting both the safety and operational efficiency of the equipment.

SOLUTION

- DYKEM® Cross Check™ Torque Seal® Tamper-Proof Indicator Paste

RESULT

- Rigorous testing proved that DYKEM® Cross Check™ Torque Seal® provided a reliable, easy, and durable way to inspect critical connections. Its visual 3-dimensional mark, which fluoresces under black light, made it simple to identify any connection issues quickly.
- The use of different colors allowed for easy differentiation of inspection dates and connection statuses, further enhancing maintenance efficiency and quality assurance processes.
- By reducing unscheduled downtimes and maintenance time, the product contributed to significant cost savings for the manufacturers.
 - Helicopter:* Estimated \$4,500 annual labor cost savings across 225 helicopter fleet
 - Fire Truck:* Estimated \$3,000 annual labor cost savings across 240 truck fleet

PRODUCT DETAILS

DYKEM #	Color	Net Contents	Container Type	Units/Case	Shelf Life
83314	Orange	1 oz	tube	24	2 years
83315	Green	1 oz	tube	24	2 years
83316	Red	1 oz	tube	24	2 years
83317	Yellow	1 oz	tube	24	2 years
83318	Blue	1 oz	tube	24	2 years
83319	White	1 oz	tube	24	2 years
83320	Pink	1 oz	tube	24	2 years
83321	Grey	1 oz	tube	24	2 years



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