



DETER-A-DYE SECURITY (PTY) LTD.

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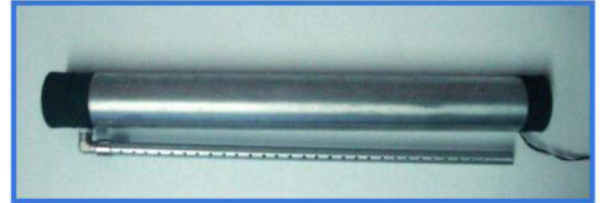
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LIQUID DISCHARGE TUBE

Purpose-

This Liquid Discharge Tube has been designed to release a liquid in various types of containers in order to cover as much of the contents as possible within a very short space of time. This system has been specifically designed to have no pressure in the Discharge Tube until activation.



Applications -

A major application, amongst many others, for this system is within the security industry where it is used to dispense the stain/dye which is used to stain printed bank notes or classified/diplomatic documents.

Currency Staining Application -

A liquid dye/stain has been developed in South Africa which is eminently suited for the staining of both polymer and paper based bank notes.

Successful testing has been carried out on this dye in accordance with the European PAS 40:2002 BSI standards in South Africa using the local bank notes through a Forensic company compliant with SANAS Criteria for Forensic Laboratories R08-01 (2001) and ASCLD Laboratory Complete Accreditation Board Manual (2004) regarding Policies, Procedures and all necessary Forms set up to ensure evidence integrity. The standard ink colours are red or blue.

Functionality -

Depending on the application in which this Liquid Discharge Tube is to be used, the tube may be mounted such that the spray bar (delivery tube) is situated and secured within the payload area of the container or behind a protective bracket/plate with a slot into the container allowing the spray to discharge through this slot into the container or outside the container with the spray bar (delivery tube) inserted through a hole into the area within the container.

The electronic device that is employed with the respective container will, via its associated sensing devices activate the Liquid Discharge Tube by applying an electrical pulse to the two separate activation heads within the tube.

This will in turn cause the contents of the Liquid Tube to be discharged through the spray bar (delivery tube) thereby staining the contents of the container within 1,5 seconds.

Technical Specs-

- * Length of actual tube 390mm
- * Diameter of tube 51mm
- * Diameter of spray bar (delivery tube) 12mm
- * Volume 500ml
- * Tube is made from aluminium
- * Overall length of tube with shock absorption end rubbers 450mm



TYPICAL CIT APPLICATION SHOWING DYE DISCHARGE TUBES

These tubes have been successfully tested by the SABS (South African Bureau of Standards)

S.A. & INTERNATIONAL PATENTS REGISTERED

- VALUABLES AND DOCUMENT DYE STAINING -

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