

## Metron Marker™ Permanent Ink Torque Seal

### FEATURES

- Designed for the aerospace, medical, electronics, and other critical industries.
- Water based, flexible, non-conductive, non-toxic, non-staining, and water/solvent resistant. Extremely bright fluorescent and other colors that dry very hard.
- Easy to identify a mark that is broken, tampered with, or comes loose.
- Provides a convenient visual method for identification of vibratory loosening or tampering on nuts, bolts, fasteners, assemblies and other parts.
- Easily detect when torque has changed.
- Provides warranty protection against tampering.
- Withstand water and most household cleaning agents.
- Highly visible under ambient light and will fluoresce brighter under UV light.
- Excellent adhesion to glass, metal, metal, textiles, plastics, and most other clean substrates.
- RoHS and REACH compliant.
- Available in Metron Marker Pens, Pneumatic Syringes, Pints, and Gallons.

### MATERIALS COMPATIBILITY

- Non-staining, non-conductive, non-toxic, non-combustible, non-flammable. Safe on most surfaces.
- Product may darken in color at elevated temperatures, the mark will remain.
- Surface tests should be run to determine compatibility prior to use.

### HEALTH AND SAFETY

- Non-combustible, non-flammable liquid and vapor.
- Not for internal use.
- No special handling required.
- Uncured material may splatter above 100 C degrees.
- Refer to SDS (Safety Data Sheet) for complete information on health and safety. Visit our website [www.MetronUSA.com](http://www.MetronUSA.com) to obtain SDS.

### Visible COLORS Invisible COLORS

#### Visible:

Red  
Green  
Orange  
Blue  
Yellow  
Brown  
Violet  
Grey  
Black  
White  
Gold  
Silver  
Hot Pink

#### Invisible when dry, will fluoresce color under UV light:

Red  
Blue  
Yellow

### PROPERTIES

Appearance:	Cream like liquid Various colors
Odor:	Mild
Flash Point:	Non-Combustible
Evaporation rate:	Less than 1
Vapor pressure:	17@20 °C
Vapor density:	Less than 1
Solubility:	Dilutable
Chemical Stability:	Yes
Toxicity:	Non-toxic
VOC:	<50 grams/liter (g/L)
Dry Time:	<10 minutes*
Resistance:	200 °C**
Shelf-life	3-12 months***

#### Note:

\*Drying time is a factor of moisture loss and will depend on atmospheric conditions, thickness of application, and other factors. Drying time can be as little as 20 seconds to several minutes. Heaters or dryers will help to speed up drying time. Due to the nature of fluorescent pigment, colors are not light fast, and eventually will fade away with UV exposure over the years.

\*\* Color might begin to turn dark when baked over 200 °C; however the marks remains legible.

\*\*\*Shelf-life is a factor of moisture loss, adding water and mixing to a thickening ink will extend the shelf-life indefinitely as long as the ink has not been allowed to harden.