

## **Specification for Solid Thermoplastic Adhesive System**

### 1. General Requirements

The adhesive system shall be a solid system requiring no mixing or blending prior to use and specifically formulated for securely and permanently affixing safety appurtenances (flexible delineator posts/tubular markers, channel markers, parking stops, etc.) to the horizontal paved surfaces of roadways, parking lots, or raised traffic islands.

### 2. Composition

The solid adhesive system shall be composed wholly of a mixture of synthetic thermoplastic resinous binder materials with appropriate extenders, plasticizers, and other additives. None of the primary ingredients in the adhesive system shall be crude oil distillates.

### 3. Manufacturing Control and ISO Certification

The manufacturer must be ISO 9001:2015 certified and provide proof of current certification. The scope of the certification shall include manufacture of preformed thermoplastic pavement marking material.

### 4. Application

The solid adhesive system shall be utilized by completely melting the solid thermoplastic adhesive in place with an external heat source (i.e. propane fueled torch) and placing the post, marker, etc. into the molten adhesive. The curing mechanism of the adhesive system to a traffic ready condition shall entail only cooling to the ambient temperature of the pavement surface.

### 5. Properties

The adhesive system shall be a uniform light gray color. The adhesive system shall be resistant to degradation by ultraviolet (UV) radiation, ozone, motor fuels and lubricants, deicing compounds/solutions, or herbicidal formulations utilized for grass/weed control.

### 6. Technical Support

The manufacturer and or authorized representative shall provide training and or technical support as required by the purchaser or his appointed representative.