

Specification for Solid Preformed Thermoplastic Adhesive System

1. General Requirements

The solid preformed thermoplastic adhesive system shall be a solid system requiring no mixing or blending prior to use and specifically formulated for securely and permanently affixing raised pavement markers to the horizontal paved surfaces of roadways and parking lots.

2. Composition

The solid performed thermoplastic 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 preformed thermoplastic adhesive system shall be utilized by completely melting the solid preformed thermoplastic adhesive in place with an external heat source (i.e. propane fueled torch) and placing the marker into the molten adhesive. It shall not be necessary to preheat the roadway to a specific temperature; neither shall it be necessary to use a thermometer during the installation of the adhesive system. The curing mechanism of the preformed thermoplastic adhesive system to a traffic ready condition shall entail only cooling to the ambient temperature of the pavement surface.

When applied on concrete surfaces a compatible primer sealer may be applied before application to assure proper adhesion.

5. Properties

The preformed thermoplastic adhesive system shall be available in white, black, grey, yellow, and blue. The preformed thermoplastic 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.