

# HPS<sup>®</sup>-6/7

## Application Guidelines

### HPS-6 & HPS-7 MMA Pavement Markings

General guidelines for the application of Ennis Traffic Safety Solution's HPS-6 & HPS-7 family of Methyl Methacrylate (MMA) based pavement markings are as outlined below. Specific installation parameters can be found in individual HPS-6 & HPS-7 product data sheets.

#### **Material Storage**

Avoid extreme storage temperatures. Keep materials in dry, protected areas, between 40°F – 80°F. Keep out of direct sunlight and protected from open flame. Use within six months of receipt.

#### **Temperature**

Both pavement surface and ambient air temperature must be at least 35° F and rising prior to striping. The maximum pavement surface temperature for application is 105° F. Installing HPS-6 & HPS-7 materials on surfaces above this temperature can lead to improper cure, dirt pickup, and/or turning black. Surface and ambient temperatures should be checked hourly at a minimum if weather conditions cause temperatures to fluctuate during the course of the striping operation. Relative humidity in the specific location of the installation shall be less than 85% and the surface temperature shall be at least 5° F above the dew point.

The pavement shall be dry and rain-free 24 hours prior to installation. Please note your drying time will be increased when striping at low temperatures. Both Part A and B must be mixed together thoroughly prior to application by any of the various HPS-6 & HPS-7 application techniques.

#### **Surface preparation**

All surfaces must be dry, free of any loose debris and within the proper temperature range prior to striping. Even though the bond of the methacrylate materials to substrates is very good, the ultimate adhesion of the product is more dependent on the cohesion of the concrete or asphalt to itself. In addition, the following recommendations should be followed:

**Existing striped asphalt or concrete roadways** - Any existing paint, thermoplastic, polyester, and epoxy or tape pavement markings must be mechanically abraded away. To ensure adequate bonding, 75% of the surface to be striped must be exposed concrete or asphalt. Removal of existing HPS-6 & HPS-7 markings is not required unless the old methacrylate is chipping and flaking, or the combined thickness of the recoated marking is undesirable.

**New or not previously striped concrete roadways** - Concrete must be allowed to cure at least 28 days, and must be mechanically abraded to remove any curing compounds or surface film.

**New asphalt roadways**- Although HPS-6 & HPS-7 pavement markings can be applied after the final roll is completed and cools to below 105° F, it is recommended that a new asphalt roadway not be striped until all construction is completed (all paving, shoulder work, etc.) and the roadway has had at least 14 days of traffic flow. This allows any oils, roller aides, or other “liquid” surface coatings to be tracked off the road surface, assuring a better surface bonding, allowing the asphalt to develop improved internal cohesive strength. Waiting also helps prevent any of these oils, dirt, etc. from being tracked or deposited onto and yielding a “dirty” looking HPS-6 & HPS-7 stripe. Please note that in cases where an “exotic” additive or mix design is used in the asphalt, it may be necessary to lightly abrade the new asphalt surface prior to pavement marking application to aid the bonding of the HPS-6 & HPS-7 and thereby yield a long lasting line. Surfaces based upon asphalt emulsions or coal tar and its derivatives are not recommended as they can inhibit the cure and bond of methacrylate based pavement marking material.

When applying over new “Chip Seal” it is imperative all loose stone be removed and no residual oils remain. 30 Days of traffic should be allowed and the surface should be broomed prior to application of the HPS-6 & HPS-7. Cohesive strength of the Chip Seal must be achieved, as the durability of the HPS-6 & HPS-7 material is directly related to the integrity of the asphalt it is applied to.

**Inlay Application**- Some of the HPS-6 & HPS-7 materials may be used for inlay installations as outlined in the Product Data Sheets. Whether wet or dry grinding is utilized, the slot must be thoroughly clean and dry prior to introducing the HPS-6 & HPS-7 material into the groove. The temperature limitations and surface considerations for HPS-6 & HPS-7 installation listed above still apply.

**PRODUCT DATA SHEETS AND MATERIAL SAFETY DATA SHEETS ARE AVAILABLE  
UPON REQUEST**

**Rev 2/3/2011**

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