

METAL SOLAR PLACARDS

Application Instructions



HellermannTyton Metal Solar Placards are designed for long-term application to equipment. Placards come standard with an aggressive 3M 9471LE Ultra Bond acrylic adhesive.

Each Metal Solar Placard comes with a pre-applied clear film that protects the placard during shipment and installation. This film is visible along the edge of the placard. The film can be left in place after installation or can be removed as desired. If using an optional Paint Shield, this film must be removed (see Paint Shield Application Instructions below).

Application Temperatures

Optimum application temperature (all surfaces): +70F (+22C)

Minimum application temperatures:

On flat surfaces: +50F (+10C)

On curved surfaces (not recommended): +55F (+13C)

Note on application temperatures: All adhesives have an optimal installation temperature to ensure good adhesive flow and bonding during the first 24 hours after application. The adhesive is an ultra-high bond acrylic that has a service temperature range of -40F to +200F (-40C to +93C), but must be applied at a minimum temperature of +50F (+10C) for flat surfaces and +55F (+13C) for slightly curved surfaces. Because the adhesive bond strength will increase as a function of time and temperature, the optimal application temperature is +70F (+22C), or higher. Bond strength can also be improved with firm application pressure and moderate heat, from +100F (+38C) to +130F (+54C), causing the adhesive to develop immediate contact with the bonding surface. When properly applied, Metal Solar Placards are not adversely affected by UV exposure and immersion in water has no appreciable effect on the bond strength.

Instructions for Adhesive Application

1) Prepare surface.

Ensure the application surface is as clean and as dry as possible. If needed, use an alcohol wipe, to clean the surface of any oils, dirt or other contaminants that might create a barrier between the adhesive and the substrate. HellermannTyton cannot anticipate all of the different surfaces and contaminants that may exist. We recommend that the user conduct a test of surface preparation and label adhesion before adhering final placards. In addition, when there are changes in plastics, on paint formulations or supplies of these materials, it is advisable to run another evaluation.

2) Remove adhesive liner (backing).

The liner is removed by grabbing an edge along the placard and removing the protective backing. When applying placards using pressure sensitive adhesive, remove the liner from the label stock, being careful not to touch the adhesive with your fingers. Do not allow the adhesive to become contaminated with dirt or dust.

Note on removing liner:

The liner is designed to stay sealed to the edges to protect the adhesive from contaminants. To remove the liner, use the fingernail to scratch the corner to start lifting the liner. A screwdriver can also be used to scratch in the same manner. Start as close to the edge as possible.



3) Apply the placard.

Apply the placard to the surface with firm thumb pressure. Start from one side of the placard and move across the placard to the opposite side to exclude air from behind the adhesive. Use firm thumb pressure, and repeat the process two or three times to ensure 100% contact of the adhesive to the surface. This allows the adhesive to "flow" into crevices of a substrate thereby achieving more intimate contact between the adhesive and the surface.

Optional Rivet Mounting

The long-term bond of the adhesive should be adequate for all applications, but if required or preferred, 0.125" holes may be drilled through the metal plate for use with rivets. Standard rivets can be used to install the placard to most metal surfaces. Please do not attempt to remove the adhesive layer as it forms an additional buffer between the aluminum and the mounting surface.



Optional Paint Shield Application

HellermannTyton offers optional Paint Shield laminates that can be applied to the Metal Solar Placards as a barrier against unintentional painting or graffiti. The Paint Shield can also be used to give additional protection to paint pen hand-written markings. HellermannTyton offers several sizes of Paint Shields designed to match your placard size. See the original header card packaging for information on the appropriate Paint Shield part number for the placard.



1) Remove original film on placard

When applying a Paint Shield, the original protective film that is supplied with each placard must be removed before applying the Paint Shield. Failure to remove the film may reduce Paint Shield effectiveness and longevity.

2) Remove backing from Paint Shield.

Each Paint Shield comes with a clear backing (it will be slightly larger than the Paint Shield itself). Carefully remove the backing, avoiding finger contact with the adhesive.



3) Position Paint Shield over placard.

The Paint Shield is designed to be slightly smaller than the placard. When positioning the Paint Shield, try to center it as best as possible; it should cover all pre-printed text and any engraved or hand-written variable data.

Note: The Paint Shield is smaller than the placard because extending the laminate beyond the placard would leave an air gap along the edges that can trap moisture and lead to failure.



4) Apply Paint Shield.

Once centered, press firmly on the surface of the Paint Shield, taking care to ensure that any air pockets have been removed. Other than the tab, there should not be over-hang that extends beyond the placard.

5) Replace as necessary.

If in the normal course of maintenance or repair it is discovered that a placard has been painted over, remove the shield to reveal original marking. Replace with a new shield as needed.

For additional questions regarding application and use of this product, contact HellermannTyton: **1-800-537-1512, 414-355-1130, corp@htamericas.com**

Actual life of Metal Solar Placard is dependent on many variables, including climate, the direction the label faces, the surface angle to which the placard is applied (horizontal or vertical) and the amount of airborne pollutants to which the placard is exposed. Initial life up to 25 years, but may last longer in under certain conditions. HellermannTyton makes no claim or warranty regarding outdoor durability, and recommends that the user test the product in actual end user conditions.

Warranty Policy HellermannTyton products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses. Every effort is made to ensure accuracy and completeness when describing the technical properties of these products.