

Instructions for the application of ThermoMark Road and Deco by PTSUR®

A) Aspects to consider before applying ThermoMark

ThermoMark is a product to be applied on horizontal surfaces with a gentle slope.

It can be applied on any asphalt surface and on concrete or stone, but in the latter, the prior application of a layer of primer is required.

It is important that more than 30 days have elapsed from the hardening of the concrete to be able to apply *ThermoMark* and in any case the concrete or cement surfaces must be dry for 48 hours if it has rained or if they have been wet.

The adhesion and durability of the product on cement or concrete bases, even using the primer, cannot be guaranteed the same way as on an asphalt base.

Also on asphalt surfaces, priming is necessary if they are worn.

You may apply it on existing thermoplastic applications, but not on other types of paintings.

To apply *ThermoMark* make sure that the surface is totally clean of any residues such as sand, dust, silt, or any type of oil or other chemicals; this operation can be done with a broom or brush, pressurized water, etc.; also the surface must be completely dry; this is achieved with a blowtorch.

Even though *ThermoMark* is already cut for its assembly, it is possible to use cutters or other cutting utensils if necessary when it comes to applying it.

Keep in mind that at temperatures below 12°C; *ThermoMark* becomes more fragile, so you have

to be more careful when handling it.

It is very important for the operator to use suitable clothing for the application, synthetic garments can never be used; because he will be working with fire; safety footwear and gloves are mandatory.

It is advisable to turn the back to the wind while *ThermoMark* is applied to protect the flame.

Always use a propane torch.

B) Apply ThermoMark on asphalt

Follow the indications of paragraph "A" and heat the pavement with the gas blowtorch. Once the surface where *ThermoMark* will be applied is ready, the pieces will be placed according to the drawing included in the packaging, the rough part; where you can appreciate the microspheres; is the one that will be visible, therefore the smoothest part is the one that goes in contact with the pavement. The pieces have to be placed without leaving spaces between them. Make sure that everything is properly aligned before giving it heat.

The pieces must be heated through a powerful gas blowtorch, working evenly, slowly but steadily, without pausing at any point, in strips 45 cm wide, these sections must be heated several times, keeping the flame at a distance of between 40 to 60 cm.

It must be heated until you see that the product begins to liquefy (at about 190°C). You can see a slight bubbling in the edges and a slight darkening of the color.

It is important to observe that the whole piece forms a uniform set, to consider the operation finished.

It is possible that due to overheating, brown spots appear on the mark. These will gradually disappear over time.

Be especially careful when applying the product with colors other than black and white, as they are much more sensitive to heat. Therefore it is necessary to increase the distance from the flame and make the heating faster.

If it was necessary to apply microspheres and non-slip material, it must be done at the end of the heating while the product is still hot. If the mark is very large, this process should be made in sections. Once the drying is complete, the application is of approximately 10 minutes but it can be sprayed with water to speed up the process.

To verify that the application has been successful, it is convenient to revise the edge of the mark with a screwdriver or knife, trying to introduce the

screwdriver or knife between it and the pavement. If delaminating occurs, you will need to reheat it.

C) Apply ThermoMark on concrete

Follow the indications of paragraph "A", and once the surface where *ThermoMark* will be applied is ready, a layer of primer will be applied to the entire surface. If the surface is porous, it will need a larger amount of primer.

It is important to let the primer air dry until it is no longer sticky.

Apply ThermoMark following the same method as on asphalt.

