



APPLICATION INSTRUCTIONS

For PreMark® 2-Layer Preformed Thermoplastic Pavement Markings

*First-time applicators should contact Flint Trading, Inc. for product support and on-site training.
For Application of single layer PreMark® markings contact your Flint Trading, Inc. representative.*



SURFACE APPLICATION, GENERAL REQUIREMENTS:

- Equipment:**
- Flint 2000EX™, or equivalent propane fueled torch with pressure regulator and 25 ft. of hose
 - Gas Powered Blower or Broom
 - Chalk Sticks and Chalk Snap Line
 - Adequate Supply of Propane
 - Paint roller (for sealer applications)
 - Leather/ heat resistant gloves
 - Tape Measure
 - Utility Knife, Putty Knife
 - Hammer and Chisel
 - Water sprayer (optional)
 - Chemical resistant gloves (for sealer applications)
- Moisture:** Pavement must be dry prior to positioning the PreMark® material.
- Surface:** Surface must be free of dirt, dust, deicing agents, chemicals and significant oily substances. PreMark® can be applied on asphalt, portland cement concrete (in conjunction with PreMark® Sealer), or new, or old thermoplastic. Portland cement concrete must be free of all curing compounds. When applying on old thermoplastic scrape off any loose material and remove the oxidized (powdery) layer by grinding the surface, or heating the surface and scraping off the oxidized layer to expose fresh material. **Do not apply on top of paint or cold plastic.**
- Material:** PreMark® 2-layer markings consist of a solid base layer and a top layer usually of a contrasting color. Keep PreMark® dry at all times. Avoid extreme storage temperatures. PreMark® should be stored indoors at temperatures between 35° F. and 90° F. Packages should be stored flat and stacked a maximum of 25 high. PreMark® should be handled with care in temperatures below 50° F, as it will be less flexible in colder weather. Shelf life is 12 months. PreMark® Sealer should be used for applications on non-bituminous pavements.
- Sealer:** PreMark® Sealer is required for all markings on portland cement concrete and other non-bituminous surfaces where the marking is at street level and would be subjected to vehicular traffic. PreMark® Sealer is supplied in 4 liter (1 gallon) and 20 liter (5 gallon) pails. Expiration date for the sealer will be clearly stamped on the container label.
- Temperature:** PreMark® does not have any road or ambient temperature requirements.

SAFETY PRECAUTIONS:

Protective clothing, consisting of leather boots, or work shoes, long pants, gloves, and either safety goggles or a face shield, and a safety vest should be worn while applying PreMark®. Avoid all contact with the molten PreMark® material and Flint 2000 EX® heat torch flame. If you do get molten material on your skin, flush the area immediately with plenty of water and then seek medical attention. Do not attempt to pull the molten material off of your skin. In the event of accidental skin contact with the sealer wash contaminated skin with soap and water and remove contaminated clothes immediately. In the event of accidental sealer contact with the eyes, immediately flush eyes with plenty of water for at least 15 minutes; remove contact lenses; call a physician.

INSTRUCTIONS FOR APPLICATION ON ASPHALT, OR FOR APPLICATION ON NON-BITUMINOUS SURFACES WHERE THE MARKING IS NOT SUBJECTED TO VEHICULAR TRAFFIC:

1. Clean intended application area thoroughly. All loose particles, sand, dust, etc. must be removed. Utilize a power blower or compressed air if available, otherwise sweep completely.
2. Mark the area to receive the PreMark® using a chalk line, chalk or crayon. When tracing always handle the material
3. Ensure that no moisture is present prior to positioning the PreMark® material on the pavement surface. Surface moisture is not often visible so you should assume that some moisture is present. Remove moisture by drying the application area with a propane fueled torch such as the Flint 2000 EX.
4. Position the base layer onto the pavement surface. If the base layer consists of multiple pieces ensure that there are no gaps between the adjoining segments. You may overlap the edges slightly. Check to ensure that proper layout and alignment is obtained before heating the material.



Prepare to heat the PreMark® by positioning yourself with the wind at your back as you face the marking. This will allow the wind to move the heat over the unheated portion of the material while at the same time keeping the heat away from your feet. Regularly spaced heat indicators, indents, have been manufactured into the top surface of the PreMark® material. The closing of these indents will provide a visual cue that the material has reached a molten state. The PreMark® material must be heated to its melting temperature to achieve a bond with the pavement. Insufficient heat will result in inadequate bonding and failure.

- Heat the PreMark® by moving the flame from your torch in a sweeping motion, approximately 2 feet wide. Heat slowly, but steadily keeping the nozzle of the torch about 4 to 8 inches above the material. Maintain a minimum distance of 4 inches between the torch nozzle and the material. Any closer will cause superficial scorching of the material without adequate melting throughout. Continue to heat the PreMark® until the indents close. **Note: the base layer must be fully heated before applying the top layer.** Attempts to reheat the marking after the top layer has been applied and heated will be unsuccessful.



- Caution: Leather gloves or other heat resistant gloves should be worn while positioning the top layer of material.** Immediately after the base layer has been applied, carefully position the top layer onto the base layer. **Note: do not attempt to re-align the top layer once it has made contact with the base layer.**



- Begin heating following the instructions outlined in Step 5 with one important difference: **Stop heating when indents begin to close.** Heat stored in the base material will continue to “cook” the top layer and produce the desired bond. The closing of these indents will provide a visual cue that the material has reached a molten state and proper bead embedment has been achieved. **Note: If the top layer of your marking is a “stencil design”, allowing portions of the base layer to show through, then it is important that you do not overheat the top layer as you will lose the detail in the “stencil design”.**



- PreMark® will cool and set rapidly within a couple of minutes of application. If desired, setting time can be accelerated with a spray of cool water.

INSTRUCTIONS FOR APPLICATION ON NON-BITUMINOUS SURFACES WHERE MARKING IS SUBJECTED TO VEHICULAR TRAFFIC:

1. Follow steps 1 through 3 as stated above. **Note: Worn, polished concrete should be ground or milled until the surface becomes rough.**
2. Apply the sealer to areas outlined in chalk or crayon. Allow it to dry until it will not transfer to your gloved finger when touched. The more porous the surface, the more sealer is required. **Caution: Do not attempt to speed up the drying process by using an open flame as the sealer is flammable at this stage.** Remember: It is important to cover the entire area with sealer where the PreMark® will be applied.
3. Continue with Steps 4 through 8 as stated above until application is complete.



NOTES:

- **Do not** attempt to apply both base layer and top layer simultaneously. The base layer must be applied first before applying the top layer.
- Closed indents act as a post-application visual cue that proper application procedures have been followed.
- PreMark® is compatible with asphalt and concrete surfaces and can be applied on special surfaces, i.e., bricks and cobble stones, using an approved sealer.
- You can "cut and paste" with PreMark®. Use a knife to score the material and carefully break it along the score. In warm weather you can use scissors. Don't throw or drop PreMark® in lower temperatures, as it will be less flexible in colder weather.
- Oil impervious PreMark® can be applied immediately after completion of daily paving operations.
- Dispose of all materials in accordance with all applicable federal, state and local laws and regulations.

PreMark® has a patented visible indent system, US Pat 5,861,206

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