

PreMark[®] Rumble Bars Installation Instructions

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.

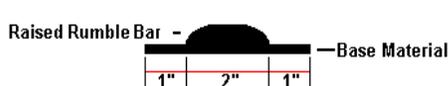
Manufacturer's Torch Advisory

It is recommended that PreMark[®] Rumble Bars be installed using a FLINT 2000EX propane heat torch. The FLINT 2000EX has a fan shaped nozzle that allows for better control of the heat being applied to the material. The fan shaped nozzle design will assist the installer in not overheating the material, which can result in a loss of bar height.

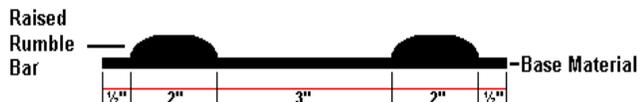
For proper surface preparation, and material handling instructions, refer to: "Installation Instructions - PreMark[®] PLUS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS".

After surface preparation is complete:

1. Position the base material.
2. Heat a 3 ft. section of the base material until all of the indents have closed completely and the material is molten.
3. Immediately position the rumble bars along the base material in the 3 ft. section which is molten, maintaining the proper distance from the edges as illustrated below.
4. Press the bars into the 3 ft. section of molten base material.
5. Carefully reheat until the edges of the rumble bar section just installed start to become molten. The flame from the FLINT 2000EX should be directed at the edges of the rumble bars. This should be done with the nozzle parallel with the path of the material to avoid overheating the rumble bars. The edges of the bars will appear glossy when they begin to melt. The edges have been reheated sufficiently when they have sealed with the base material. There should be no visible gaps between the two materials.
6. Repeat steps 2, 3, 4, and 5 until all of the rumble bars are installed.
7. Inspect the recently applied base material to ensure that complete bonding has occurred over the entire area. After the base material has cooled to near ambient temperature, try to lift an edge, or cut an area in the interior of the material with a chisel. Try to lift a portion of the material, if the material can be lifted without evidence of asphalt on the underside, insufficient heat has been applied. If possible, reapply heat until adequate bonding has occurred. Note: Do not leave the project until sufficient bond has been established. Attempts to reheat at a later date will be unsuccessful due to trapped moisture beneath the base material.
8. After it cools, chisel test the area that has the most defined edge between the base and a bar. This is done by driving a cold chisel, or putty knife, through the bar, and attempting to pry the bar off of the base material. Verify that the two materials have fused together. If the bar comes loose from the base material and is shiny underneath repeat step 5 as necessary.



2 in. bar on 4 in. base



2 in. bars on 8 in. base

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

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