



## PREMARK® APPLICATION

### **GENERAL REQUIREMENTS**

#### **Surface:**

- PREMARK® is compatible with all asphalt surfaces. When applying to a non-bituminous surface (e.g. concrete, bricks and cobble stones) it is important to use an appropriate primer.
- PREMARK® can be applied on top of old thermoplastic markings. Make sure to scrape off loose material and then remove any moisture and dirt. Do not apply PREMARK® on top of paint, cold plastic and tape markings.
- The surface must be horizontal with only a small slope of about 5%.
- The surface must be totally dry before installation! Remove all moisture from the application area using the gas burner.
- The surface must be free of dirt, dust, chemicals and oily substances. Remove these by using a broom, high pressure water or grinding.

#### **Storage and Handling:**

- PREMARK® material must be kept dry at all times – in storage, in transit and on the job.
- PREMARK® material must be stored between 2°C and 32°C.
- PREMARK® packages must be stored flat and stacked max. 25 packs high.
- PREMARK® material must be handled with extra care in temperatures below 10°C as it will be less flexible.
- "Cut and paste" is possible with PREMARK®. Use a knife to score the material and carefully break it along the score. In warm weather scissors can be used.
- Shelf life is 24 months from production date.

#### **Safety precautions:**

- Protective clothing (leather boots/work shoes and long trousers) should be worn whilst applying PREMARK®. NOTE: No synthetic fabrics should be worn.
- The person(s) making the installation should, if possible, always have the back up against the wind so that the gas burner flame is kept away from the body.

#### **INSTALLATION Application on asphalt:**

1. Clean application area thoroughly by removing all sand, dirt, chemicals and oily substances. Use a broom or compressed air to clean the surface.

2. Remove all moisture present (if any) in the surface with the gas burner.
3. Place PREMARK® material on the road surface with the beaded and skid resistant topcoat facing up. Make sure the individual pieces are positioned correctly and with no gaps in-between before heating. When applying markings with more than one piece, the top layer in the box is the lower right part of the marking. NOTE: If several layers of PREMARK® are required (e.g. rumble bars) each layer must be heated in place separately.
4. Heat PREMARK® using a powerful gas burner (pressure min. 3 bar). For a successful application and to apply sufficient heat, we recommend a gas bottle sized 10 kg or bigger. If the gas bottle freezes, change to another gas bottle. Move the flame slowly but steadily 10 to 30 cm over the material in a sweeping motion so that heat is evenly applied. The PREMARK® must be heated until all the material is liquid (approx. 200° C).
5. Sufficient heat has been applied when the following things are evident on all parts of the material:
  - All the indicator indents have closed and are no more visible. NOTE: The indicator indents are the 2 cm long scores that are systematically placed on the topside of the PREMARK® material.
  - The material is liquid and starts to bobble (like it is boiling).
  - The colour of the material has changed to a slightly darker colour.
  - The edges of the material have settled/fallen down against the road surface.
  - The individual pieces have fused together into one marking.
6. Applying insufficient heat will result in inadequate bonding and failure. If overheated, superficial scorching of the material can occur by means of brown blotching, but this discolouring will soon disappear once the marking is exposed to traffic and weather. NOTE: Extra care must be shown when installing coloured PREMARK® since the organic pigments are more sensitive towards heat. "Slow cook" the material by holding the burner slightly higher and keep moving it consistently. If the material is heated too intensely, the organic pigments can make an irreversible colour change.
7. During application, the prebeaded layer of glass beads and skid resistant material will sink into the material. This will lead to reduced initial retro reflection and skid resistant values. If high initial values of retro-reflectivity and/or skid resistance are required, a drop on bead and anti-skid mix will need to be added
8. PREMARK® will cool down and harden within 5-10 minutes after end installation depending on air temperature. If needed, the cooling down time can be speeded up by spraying cold water or drop-on mixture on the marking.
9. When PREMARK® has cooled down to near ambient temperature, inspect for correct installation by trying to lift parts of the material from the surface using a knife or chisel. This should be done both at the edges and by making "V-shaped" cuts in the material. If material can be lifted without evidence of asphalt on the underside, insufficient heat has been applied. Simply reapply heat until adequate bonding has occurred. NOTE: Do not leave the job until a sufficient bond has been established. Attempts to reheat at a later date will be unsuccessful due to trapped moisture beneath the PREMARK® material.

Application on non-bituminous surfaces:

1. Follow steps 1 and 2 as stated for Application on asphalt.
2. Apply the recommended primer on to the entire surface area where the marking is to be installed according to the installation manual for the given primer. The more porous the surface, the more primer is required. NOTE: Read the

manual carefully before starting the work with the primer, and read the safety data sheet for relevant safety measures. Do not speed up the drying process by using the gas burner, as the primer is flammable at this stage.

3. Continue with steps 3 to 9 as stated for Application on asphalt. NOTE: When trying to lift material parts in order to inspect for correct installation, surface parts must be present on the material underside or, alternatively, some of the PREMARK® material must still be sticking to the road surface.

NOTE: Road markings on new cement/concrete surfaces may generate adhesion difficulties even when using the recommended primer. The drying time of the cement/ concrete and the transpiring of salts, alkalis and other additives or coloured pigments can affect the adhesion of the material, and in worst case lead to complete failure of the marking. Before applying PREMARK® on new concrete, the concrete must be at least 7 days old and the degree of humidity should be less than 5%. The degree of humidity can be measured with a hygrometer for concrete. Generally, we recommend waiting as long as possible with applying on new concrete.

PRODUCT TRAINING All end-users of PREMARK® have the possibility to receive authorized guidance or product training free of charge. For first-time users of PREMARK®, this is highly recommended! Please contact us for support

## Support and Service

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