

Thermoplastic markings

Technical data sheet

Thermoplastic markings StreetMark

What is StreetMark color thermoplastic marking?

It is a preformed thermoplastic that offers endless possibilities for color marking and finishing outdoor asphalt surfaces, roads, and sidewalks.

Thermoplastic markings are applied to asphalt or concrete surfaces in a heated state and, after cooling, create a highly durable, non-slip surface with a wide range of graphic options suitable for playgrounds, traffic and other markings.
Unlike paints and coatings, which wear off quickly, thermoplastic material will look good and remain functional for many years. The material is non-toxic and complies with the BSEN1436 standard.

- **Complies with standard: BSEN 1871 Non-toxic.**
- **Lasts up to 10 times longer than paint.**
- **Colorful and highly resistant to UV radiation.**
- **Available in multiple colors.**
- **Easy to shape to create almost any logo, decal, or inscription.**





Discover our wide range of markings and easily transform unused gray areas in your neighborhood into colorful and fun playgrounds, or simply make these areas more attractive and useful. **More on www.StreetMark.eu**

Before applying StreetMark:

- StreetMark is primarily applied to **horizontal or only slightly sloped surfaces.**
- It can be used on asphalt, concrete, and stone—however, concrete and stone must be treated with a **primer beforehand.**
- For new concrete, it is necessary to wait **at least 30 days** after curing, and if the surface has gotten wet, it must be dry for **48 hours.**
- Adhesion to concrete (even when using a primer) is not as reliable as to asphalt. Even old or worn asphalt needs to be **primed.**
- **Must not be applied to coatings other than thermoplastics** – i.e., not to conventional paints.

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- The surface must be **completely clean and dry** – free of dust, sand, oil, etc. Cleaning can be done with a brush, pressurized water, and drying with a flame.
- StreetMark is pre-cut, but can be further adjusted with a knife if necessary.
- **At temperatures below 12 °C,** the material is more brittle – caution is required. **(We do not recommend installation below this temperature!)**
- Operators must wear protective equipment – no synthetic clothing! Protective gloves, boots, and clothing are required.
- Work **downwind (with your back to the wind)** to protect yourself from flames.
- **Use only a propane gas torch.**

StreetMark application on asphalt:

- Heat the surface with a gas burner, as described in point A.
- Place StreetMark according to the instructions on the packaging – **the rougher side (with microbeads) will be visible**, with the smoother side facing down.
- Place the pieces close together – **without gaps** – and align them.
- Then heat the entire surface – **evenly and continuously**, in strips approximately 45 cm wide, **from a distance of 40–60 cm**.
- Heat to a **temperature of approximately 190 °C**, when the material begins to **bubble slightly and darken** at the edges.
- When the entire surface is joined into a single homogeneous whole, the application is complete.
- Check the adhesion, e.g., with a screwdriver – if it peels off, heat it again.
- **Overheating may cause brown spots** to appear, which will disappear over time.
- Be especially careful **with colors other than black and white**
  – increase the distance from the flame and heat faster.
- If you need to apply **anti-slip material or microbeads**, do so **at the end of heating while the mark is still hot**.
- The mark will dry in about 10 minutes. The process can be accelerated by spraying with water.

StreetMark application on concrete:

- Follow the instructions in section A.
- Before application, it is **necessary to apply primer** to the entire surface of the material.
- Primer consumption will be higher on porous concrete.
- Allow the primer to dry in the air – **it should not be wet, just slightly sticky**.
- The surface with primer **must not be heated**.
- Then apply StreetMark in the same way as on asphalt.

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Important points for the correct application of StreetMark:

APPLICATION ON ASPHALT SURFACES:

1) CLEANING THE SUBSTRATE

The surface to which StreetMark will be applied must be **completely clean** – free of dust, dirt, grease, oil, or other stains.

These impurities significantly **reduce adhesion** and can cause **deterioration and deformation** of the material. A poorly cleaned surface will result in **the entire label or parts of it coming off**.

2) PREHEATING OF ASPHALT

If the asphalt is not completely new, it must be **preheated** according to the instructions for use.
Preheat the asphalt until bitumen appears on the entire surface.
Adhesion is created by heating the asphalt – connecting the material with heated bitumen.

Application on freshly laid asphalt is not recommended.

3) WIND

Beware of wind! Wind can distort surface heating and cause poor adhesion.

- It causes **bubbling or rippling** of the heated StreetMark surface, which may falsely indicate that the material is properly melted—in fact, the bottom partis not sufficiently heated and full adhesion will not occur.
- It can **deflect the burner flame**, giving the impression that the area is heated, when in fact it is not.

4) MOISTURE

The surface must be **completely dry**.
Water is a major obstacle to proper adhesion, and StreetMark cannot be applied to a damp surface.

5) EDGES

After application, it is **necessary to check and overheat the edges of the mark** using a burner. Insufficient adhesion of the edges may lead to parts of the **mark coming off.**
After cooling, check the edges of the mark and overheat them if necessary.

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6) CONNECTIONS BETWEEN PARTS

Visible gaps between individual parts mean that they **have not been heated properly**.

However, minor differences and gaps in connections of up to approx. 2 mm are always visible. This is not considered a defect. Minor cracks in the material that appear over time are not considered a defect. They are caused by the expansion and contraction of some substrates.

A slight indentation between parts is acceptable if they are **well connected and adhesive**.

7) HANDLING AND TRANSPORTATION

Always transport boxes horizontally. Handle individual parts with extreme care, especially in cold weather, when they are fragile and break easily.

APPLICATION ON CONCRETE AND SIMILAR SURFACES:

Follow the same instructions as for asphalt, except that the surface must not be preheated. For concrete and cement, always use a primer according to the instructions in the manual.

The warranty period for StreetMark markings installed directly by 4soft is 2 years. The service life of StreetMark markings is proportional to the quality of the substrate on which they are installed. New or smooth and cohesive asphalt has the best prerequisites for durability exceeding 6 years.

Suitable and Unsuitable Surface for Installation

ASPHALT SURFACES:

The quality of the asphalt has a decisive impact on the service life of thermoplastic markings. The better the condition of the surface, the higher the durability of the marking. Conversely, damaged or weathered asphalt significantly reduces its longevity.

✓ **Suitable surfaces:**
New or well-maintained asphalt with a uniform surface and minimal cracking
Cleaned and properly prepared surfaces

✗ **Unsuitable surfaces:**
Weathered asphalt with cracks or an unstable structure
Surfaces contaminated with oil, grease, or other impurities

If the asphalt does not meet the required standards, its quality can be improved using specialized technologies, which must be assessed on an individual basis.





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CONCRETE SURFACES:

Application on concrete is more complex and generally less durable than on asphalt. The concrete must be:

- **Completely dry, clean, and free of dust, oil, and grease**
- **Treated with a special primer to improve adhesion**
- **Fully cured, stable, and free of cracks and surface irregularities**





If the concrete does not have the proper slope or is exposed to constant moisture, this can negatively affect the service life of the marking. Water accumulation on the surface must be prevented.

UNSUITABLE SURFACES:





Technical data – StreetMark:

MATERIAL TYPE: Preformed thermoplastic (alkyd type)

DESCRIPTION OF COMPOSITION:

- approx. **30 %** titanium white and white fillers (in the case of colors, also pigments)
- approx. **20 %** binders
- approx. **50 %** glass microbeads

MATERIAL THICKNESS: 2,6 mm (±0,3 mm)

AREAS OF USE:

For horizontal marking on surfaces:

- **asphalt**
- **concrete**
- **stone**

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APPLICATION INSTRUCTIONS: (more information on the last page)

- Use **a gas burner**
- Heat the material to a temperature of **180–220 °C**
- Allow to cool for approx. **10 minutes** (at an ambient temperature of 20 °C)

FEATURES:

- **55 SRT** – possibility of increasing anti-slip properties by adding additional material
- **Retroreflection >150 mcd/m².lx**
- **EN 1436 standard – classes:** S1, Q4, R5
- Asbestos-free
- The pigments used are of **organic origin**

LIFESPAN:

Depends on:

- **layer thickness**
- **traffic load intensity**

It is essential to follow the correct application procedure!

PACKAGING AND STORAGE:

- Packaging in boxes measuring **40 × 600 × 1000 mm.**
- Max. **25 boxes** can be stacked on top of each other.
- **Never stack individual parts on top of each other**, if the plastic separator has been removed.
- **Not suitable for handling at temperatures below 10 °C or above 38 °C.**

PHYSICAL AND CHEMICAL PROPERTIES:

- Shape: sheet or plate
- Odor: odorless
- **Melting point:** 100–125 °C
- **Density:** 1,9–2,0
- **Solubility in water:** insoluble

ADDITIONAL INFORMATION:

- **Health hazard:** 0
- **Flammability:** 1
- **Reaktivity:** 0
- **Special hazard:** none
- **Revision:** No. 2

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StreetMark color options

The pigments used in the production of our StreetMark products are of organic origin.



The technical data sheet was created by 4soft, s.r.o.

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