

Technical Data Sheet



COOL BARRIER ROAD MARKING

Acrylate Paint for Horizontal Road Marking

Product description

Acrylate paint for asphalt and concrete pavements

Typical use:

- Marking of roads and highways, airplane runways, car parks, playgrounds and sports grounds with asphalt and concrete pavements. Meets the special requirements for road construction;
- Marking of the city street network. With improved drying. Suitable for the requirements of intensive traffic.

Properties:

- Meets the requirements of BNS EN 1871:2004 and BNS EN 1436:2008
- Excellent working properties, ensuring very good conditions for traffic safety;
- High wear resistance;
- Good elasticity;
- High cohesion coefficient;
- Resistance to gasoline and water.

Drying temperature:

At normal air temperature. Work in dry weather at a temperature from 5°C to 35°C.

PHYSICAL CHARACTERISTICS

Colour: Produced in white and yellow colours.

Appearance: Homogenous, easy-flowing mass.

Flowing time, funnel 6 mm, (23±0,5)°C (BNS EN ISO 2431): min 90

Non-volatile content (BNS EN ISO 3251): min 76,5%

Theoretical consumption: 450-550 g/m² at thickness of the dry film about 250 µm.

Density (BNS EN ISO 2811-1): 1,61 ±0,06 g/cm³

Maximum content of VOC: (cat.: A/i) is 500 g/l

CHARACTERISTICS OF THE COATING

Surface drying: 15 min

Complete drying time, (BNS EN 29117) (23±2)°C, thickness of the dry film 45 – 60 µm: at 25 min,

Drying time after application: At application thickness of the dry coating of 220 - 280 µm, depending on the environmental temperature it dries in 75 – 80 min

Rub resistance of the film with sand at thickness of the dry film 60 µm: (BNS 14120-77), 0,82 kg/µm (at min 0,08 kg/µm

Test of lattice threads: (BNS EN ISO 2409): 2 degree

Sliding resistance (EN 1436): 50, class S 2, SRT units

Resistance to the effect of liquids at (23±2)°C: Distilled water: min 72 hours

Luminance Factor (β), (EN 1871): β = 0,868 % class LF7 – for white, β = 0,745 % class LF2 – for yellow

Working method: Open the packaging carefully and homogenize well. Work at temperatures over 5°C for air and maximum 35°C for the pavement. **In hot summer days** (air temperatures over 25°C, respectively over 35°C of the asphalt surface), application must be done in the morning (6-10 h), late in the afternoon (18-22 h) or during the night, especially for relatively new asphalt pavements.

Thinning: With Abolin Co Special Thinner summer / winter (spring, autumn), depending on the season:

1. On new and relatively new asphalt pavements it is applied mainly by machines for airless spraying, without thinner or with minimum thinning up to 4%. (Greater thinning is not necessary because the new asphalt surface has a sufficiently thick layer of bitumen, which would be dissolved in the highly thinned paint and as a result the marking would turn yellow or black). The time for releasing the road traffic is at least 2 hours after applying the marking in a specific section.

2. On old asphalt and concrete pavements:

With machines for airless and air spraying, obligatory thinning of the paint up to 6-8%. (This is necessary for better wetting of the old asphalt or concrete pavement with the thinned paint and therefore to improve the cohesion between them).

Application method: Road marking equipment, brush, roller

Suitable bases: Asphalt and concrete surfaces

Preparation of the base: Cleaning from mud and dust. Removal of oily stains with Abolin Co Special Thinner. If necessary – priming of the concrete surfaces and worn out asphalt surfaces with Specialised primer for horizontal road marking.

Coating thickness: The thickness of the dry film must be 250-300 microns, which is achieved with 350-450 microns wet film. The consumption is 450-550 g/m² (without thinner). In this thickness of the dry film a light-reflective layer of beads may be applied.

Safety measures: COOL BARRIER ROAD MARKING Paint for horizontal road marking is classified as a harmful and flammable product. When used, the requirements for fire safety and production hygiene must be observed. If necessary – refer to the Safety Data Sheet. **The product is ONLY FOR PROFESSIONAL USE**

Packaging: Metal packages with weight 25 and 30 kg.

Storage: Storage temperature – up to 30°C. Store in original, tightly sealed packages in sheltered and dry storage premises, protected from direct sunlight and heating appliances! Keep out of the reach of children!

Shelf life: 6 months from production date in factory-sealed package.

BASE	SYSTEM	COATS	Total thickness dry film	Time for application of next coat
Asphalt and concrete	COOL BARRIER ROAD MARKING Paint, thinned according to instructions with Thinner summer / winter	1 coat	220-280 microns	----- OR, After drying of the previous

Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Abolin's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Abolin representative for approval before commencing the work. Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

Disclaimer

The information in this document is given to the best of Abolin's knowledge, based on laboratory testing and practical experience. Abolin's products are considered as semi-finished goods and as such, products are often used under conditions beyond Abolin's control. Abolin cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Abolin reserves the right to change the given data without further notice. Users should always consult Abolin for specific guidance on the general suitability of this product for their needs and specific application practices. If there is any inconsistency between different language issues of this document, the English version will prevail.