

Atlantic Frigate

THERMOPLASTIC FOR ROAD MARKING



About the Product

Thermoplastic "Atlantic Frigate" is a hot-melt free-flowing mixture of polymer binders, mineral fillers, pigments and functional additives (plasticizers, stabilizers, etc.), which forms after heating, mixing and cooling; thick, solid, opaque polymer coating.

Scope of Usage

Designed for coating asphalt and cement concrete roads with the aim of organizing the movement of vehicles and pedestrians and improving road safety



3 years
minimum life-time



Anti-skid
For safe driving



Light reflection
more than 900 m

Durability of Atlantic Frigate enamels

Our paints are designed for a long service life. Bench tests have shown this, with excellent results:

- adhesion of at least 4 MPa,
- minimal wear on the abrasimeter in dry and wet weather when modeling conditions of high traffic intensity,
- spiked-tire wear resistance of coatings, as evidenced by the results of tests on CRT-PRALL equipment

Night-time Visibility

To obtain the best effect of retroreflection on unlit sections of roads at night, when applying thermoplastic, micro-glass beads are used. Depending on the capabilities of the customer, freshly applied marking is sprinkled with the beads before curing begins or thermoplastic with micro-glass beads is delivered in advance.

Recommended micro-glass bead fraction: 400-850 microns.

All of our expertise will be at your service.

Optimal consumption of the micro-glass beads: from 300 g/m²

Characteristics

Parameters	Test Results
Appearance of the original product	Bulk powder and capsule mixture with sizes up to 10 mm
The appearance of the melt	Homogenized viscous fluid
Hardened product color	White, yellow. Depending on customer requirements
Softening point, °C	90
The melt flow rate at 200 ° C, g / s	10
Brightness coefficient, %	75
Curing time at 20 ± 2°C and humidity 65 ± 5%, min.	12

Application

In the case of thermoplastics, road marking is applied in the molten state by a mechanized method using special marking equipment or manually using plastomarkers.

Operating temperature for the preparation of molten thermoplastics: 190 - 210 ° C.

Recommended thermoplastic marking thickness: 2.5-4 mm.

Optimum consumption of thermoplastics: from 6 kg / m²

Upon reaching the operating temperature, the melt is mixed in the boiler of the scribing machine at the same temperature for 30-60 minutes until a homogeneous mass without lumps and extraneous inclusions is obtained. Marking works must be applied in dry weather to pavements cleaned of dust, sand, dirt and traces of oil at an ambient temperature of at least + 5 ° C and a pavement temperature of at least + 10 ° C. It is recommended to carry out work on applying spreading material on the surface with minimal sweating of bitumen and laid not less than 50 days before the planned marking date. The calculation of the optimal consumption of thermoplastics is made taking into account the category of roads, the state of the coating on which the markings are applied and the type of lines applied.

Delivery

Atlantic Fregat thermoplastics are available in two primary colors: white and yellow. Delivery is carried out in plastic bags of 25 kg.

Conclusion

The road marking of the Atlantic Frigate brand meets the requirements of GOST R 52575-2006 and GOST 32830-2014 and is designed for a long period of operation

All of our expertise will be at your service.