

STABITERM-219

Fire-retardant weather-proof water based paint for metal structures
TOR 2316-011-25572341-2013

Formulation and manufacture of the Research and Production Company

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Product Characteristics

“Stabiterm-219” fire-retardant weather-proof paint for metal structures is a single-component paint constituting mixture of fire-retardant components, fillers, rheological additives in binder. Effect of paint is based on intumescence of the coating induced by high temperatures (+200 °C and more) and the formation of a porous heat-insulating layer.

Application

“Stabiterm-219” paint is designed to increase fire resistance rating of metal structures operated indoors (heated, unheated) under conditions of open atmosphere (ambient air temperature from -60 °C to +60 °C) and moderately aggressive environments. Complies with fire safety regulations set by GOST R 53295-2009. The coating is weather-proof and resistant to moderately aggressive chemical environments after thorough drying (additional finishing coating is not necessary).

Color

Standard color of paint is grey.

Packaging

Ready to use paint: plastic bucket “Jet-180”, net weight is 20 kg.

Fire-retardant Efficiency

Fire-retardant efficiency	Effective thickness of metal, mm	Paint consumption*, kg/m ²	Thickness of paint dry coat, mm
45 minutes	3,4	1,16	0,75
60 minutes	3,4	1,88	1,21
90 minutes	5,8	2,29	1,48
120 minutes	7,2	3,33	2,15

* paint consumption is indicated without regard to process losses.

Certificates

Epidemiological and hygienic Safety of “Stabiterm-219” fire-retardant paint is proven by State Registration Certificate RU.78.01.05.008.E.000262.04.14 dated 10.04.2014. Fire-retardant efficiency is proven by Certificate of Compliance C-RU.ПБ34.В.01453 dated 10.04.2014. Moreover, each batch is provided with quality certificate confirming the basic physical and chemical parameters.

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Physical and chemical features

External appearance of coating	Matte surface of grey color, unflawed, without craters and crawling.
Dry residue, at least %	65,0
Density (ρ), g/cm ³	1,2-1,3
Dilutant	Water
VOC (volatile organic compounds)	No

Application Instructions

Surface preparation

Metal surfaces must be clear of rust, dust, dirt, and old paint. Before the application of weather-proof fire-retardant paint “Stabiterm-219”, the surface should be primed with GF-021 primer (or equivalents). On primed surface shall not be boils, attributes of fissuring and crocking.

Application

Painting of metal structures can be performed using airless spraying devices, paint-brush or roller. Minimum ambient temperature when painting is +5 °C. Before applying paint should be stirred well in original packing. During painting additional stirring is recommended for fluidity increasing. If necessary it is permissible to dilute with water to application viscosity. Optimum thickness of first layer is 400 microns. Thickness of next layers may be up to 1200 microns. The paint is applied in 2-3 layers. Interlayer drying time is 3-6 hours at temperature of 20 °C, at lower temperature drying time may be longer. Paint process losses can reach 10-240% depending on painting method, surface characteristics, painting conditions. Coating service life is no less than 25 years in heated spaces if painting and service conditions are observed. Coating service life is no less than 20 years in unheated spaces and under open atmosphere conditions if painting and service conditions are observed.

Instrument cleaning

Instruments used for painting shall be washed out with water before paint dry.

Storage

Guaranteed storage life in original unopened packing is 12 months. Storage temperature is from +5 °C to +40 °C.

Accident prevention

Painting works shall be performed in accordance with manual specified in GOST 12.3.035-84 «Safety Standards System. Painting works». The paint is not disengages harmful substances, not aggravates skin. In case of skin contact, it is necessary to wash it with warm water using soap.

Fire-retardant paint for metal structures “Stabiterm 219” is intended for professional use only!

All the data provided in this document, except the data confirmed by the official certificates, are stated for reference only, on the basis of the laboratory tests and operational experience. The company manufacturer is not liable to third parties for damage caused by improper or unregulated use of the material.