

1 (2)

STABITERM-217

Fire-retardant water-borne paint for metal structures

Engineering Specifications TY 2316-001-25572341-2013

Formulation and manufacture of the Research and Production Company**“Fire Protection Engineering Laboratory” LLC**

Dzerzhinsk, the Nizhni Novgorod Region, phone/fax (8313) 23-00-11 (multichannel)

e-mail: info@stabiterm.ruwww.stabiterm.ru

Product Characteristics

Fire-retardant water-borne paint for metal structures Stabiterm-217 is a complex composition representing a finely-dispersed mixture of fire-retardant components, binder and valuable supplements. The effect of paint is based on intumescence of the coating induced by high temperatures (+200 °C) and the formation of a porous heat-insulating layer. Fire-retardant paint Stabiterm-217 is available as a ready-to-use material as well as a dry mix.

Application It is used for fire protection of metal structures in industrial and civil construction. Used indoor or outdoor under roof. It complies with fire safety regulations set by GOST R 53295-2009. When applying the fire-retardant paint Stabiterm-217 outdoor, coating with protective weather-resistant enamel should be provided.

Color Standard color of the paint is white. Color matching in pastel shades is possible.

Packaging Ready-made composition: plastic bucket “Jet-180”, net weight 20 kg.
The composition represents a dry mix: polypropylene bag with a polyethylene liner, net weight 12 kg.

Fire-retardant efficiency

Fire-retardant efficiency	Effective thickness of metal, mm	Paint consumption * kg/m ²	Thickness of paint dry coat, mm
15 minutes	1	0.85	0.53
15 minutes	3.4	0.25	0.15
30 minutes	3.4	0.72	0.45
45 minutes	1.5	2.51	1.57
45 minutes	3.4	1.2	0.75
45 minutes	7.8	0.53	0.33
60 minutes	3.4	1.92	1.2
90 minutes	4.1	3.04	1.9
90 minutes	5.8	2.3	1.44
90 minutes	8.9	1.76	1.1
120 minutes	5.8	4.8	3.0
120 minutes	7.8	3.6	2.25

* paint consumption is indicated without regard to process losses.

2 (2)

Certificates Safety in use of the fire-retardant paint Stabiterm-217 is confirmed by the Registration Certificate No. RU.78.01.05.008.E.001029.06.13 dated June 28, 2013. Fire-retardant efficiency is proven by the Certificate of Compliance C-RU.PB34.V.01165 dated 17 May 2013, C-RU.PB34.V.01238 dated July 9, 2013, ССРП-РУ.ПБ34.Н.00041 dated July 22, 2015. Each batch is provided with the quality certificate confirming the basic physical and chemical parameters

Physical and chemical parameters

External appearance of coating	Blind smooth surface without pinholes and flaws
Dry residue, at least %	70
Density (ρ), g/cm ³	1.2-1.3
Dispersion, μm	70
Thinner	water
Volatile organic compound (VOC)	none

Application Instructions

Surface preparation

Metal surfaces must be clear of rust, dust, dirt, and old paint. Before the application of fire-retardant paint Stabiterm-217, the surface should be primed with GF-021 or Stabiterm-022 primer (or equivalents).

Application

Application of the fire-retardant composition Stabiterm-217 on metal structures can be performed using airless spraying devices, brush or roller, at a temperature no less than +5 °C and at a relative humidity no more than 80 %. Before applying the paint should be stirred well. While applying paint, additional stirring to increase the flow is recommended. If necessary, thinning with water for getting working viscosity is possible. Optimum thickness of first layer can be up to 500 microns. Thickness of next layers may be up to 1000 microns. Paint is applied in 2-3 layers. Interlayer drying is 3-6 hours at +20 °C. In case of temperature decreasing, drying time may be longer. Coating service life without a protective layer is not less than 25 years in the heated premises if application and service conditions are observed. Coating service life with a protective weather-resistant layer is no less than 20 years in unheated premises and outdoor if the application and service conditions are observed.

Instrument cleaning

Instruments and equipment used for painting should be washed out with water, before paint drying.

Storage

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

Accident prevention

Painting works should be performed according to the guidelines set by the GOST 12.3.035-84 "Occupational safety standards system. Painting works". The composition does not give off substances harmful to human health, does not irritate the skin. In case of skin contact, wash out this area with warm water and soap.

Fire-retardant paint for metal structures Stabiterm-217 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.