

# STABITERM-209

Weather-resistant fire-retardant paint for metal structures

Engineering Specifications TY 2316-013-25572341-2014

**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.ru](mailto:info@stabiterm.ru)

[www.stabiterm.ru](http://www.stabiterm.ru)

## Product Characteristics

Weather-resistant fire-retardant paint for metal structures Stabiterm-209 is a single-component composition representing a mixture of fire-retardant components, fillers and rheological additives in a binding agent. 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.

### Application

It is used to increase fire-resistance period of metal structures indoor (heated and unheated premises), outdoor (ambient air temperature is from -60 °C to +60 °C) and in moderately aggressive medium. It complies with fire safety regulations set by the GOST R 53295-2009. Once dry, coating is weather-resistant and resistant to moderately aggressive chemical environment (there is no need in top coat).

### Color

Standard color of paint is grey.

### Packaging

Standard metal bucket with flower edge or lever lock ring lid, net weight 25 kg.

### Fire-retardant Efficiency

Fire-retardant efficiency	Effective thickness of metal, mm	Paint consumption*, kg/m <sup>2</sup>	Thickness of paint dry coat, mm
45 minutes	3.4	1.11	0.74
60 minutes	3.4	1.8	1.2
90 minutes	5.8	2.22	1.48
120 minutes	7.8	3.18	2.12

\* paint consumption is indicated without regard to process losses.

### Certificates

Fire-retardant efficiency is proved by the Conformity Certificate C-RU.ПБ34.В.01591 dated September 17, 2014. Each batch comes with a quality certificate confirming the basic physical and chemical parameters.

## Physical and chemical parameters

External appearance of coating	blind grey surface, without cracks, dimples and ripples
Dry residue, at least %	65.0
Density ( $\rho$ ), g/cm <sup>3</sup>	1.2-1.3
Thinner	xylene

## Application Instructions

### Surface preparation

Metal surfaces must be clear of rust, dust, dirt and old paint. Before the application of weather-resistant fire-retardant paint Stabiterm-209 the surface should be primed with GF-021 or equivalents. There shouldn't be bubbles, cracking or peeling on the primed surface. If defects are found it is necessary to restore priming coat.

### Application

Painting of metal structures with fire-retardant paint Stabiterm-209 can be performed using airless spraying devices, brush or paint roller. Optimal ambient temperature is more than 0 °C. It is permissible to paint at subzero temperature (down to -15 °C). In this case drying time will be longer. Before applying, paint should be stirred well, when applying it should be additionally stirred to increase flow. If necessary it may be diluted with xylene (GOST 9410-78) to application viscosity (maximum 3-5%). Solvent shall be added a little at a time continuously stirring. Important: 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 is 1-2 hours at +20 °C, if temperature reduces drying time may increase. Paint losses at applying are 10-240 % and depends on application method, surface and applying conditions. Coating service life is no less than 25 years inside heated premises if application and service conditions are observed. Coating service is no less than 20 years in unheated premises and outdoor if the application and service conditions are observed.

### Instrument cleaning

Instruments used for painting should be washed out with xylene before paint drying.

### Storage

Guaranteed storage period in an original unopened packing is 12 months. Storage temperatures from -40 °C to +40 °C, keep away from direct sunlight.

### Accident prevention

Painting works should be performed in well-ventilated places in accordance with the recommendations of the GOST 12.3.035-84 "Occupational safety standards system. Painting works". When painting, you should use individual protective gears (rubber gloves, safety glasses, breathing mask etc.). In case of skin contact, it is necessary to rub this area using cloth dampened with solvent, and then to wash it with warm water using soap.

**Fire-retardant paint for metal structures Stabiterm-209 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.