

# STABITERM-207

Fire-retardant paint for metal structures

Engineering Specifications TY 2313-004-84300285-2008 rev.1

**Formulation and manufacture of the Research and Production Company****“Fire protection engineering laboratory” LLC**

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## Product Characteristics

Stabiterm-207 is a single-component ready-to-use fire-retardant paint for metal structures representing a finely-dispersed mixture of fire-retardant components, rheological additives and binder in organic solvent. 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 for fire protection of metal structures in industrial and civil construction indoor or outdoor under roof. When applying the fire-retardant paint Stabiterm-207 outdoor coating with Stabiterm-007 protective weather-resistant enamel should be provided.

**Color**

Standard color of paint is white. Color matching in grey and pastel shades is possible at stage of manufacturing.

**Packaging**

Standard metal bucket with flower edge or lever lock ring lid, net weight 25 kg. Standard packing is included in price.

**Fire-retardant Efficiency**

Fire-retardant efficiency	Effective thickness of metal, mm	Paint consumption*, kg/m <sup>2</sup>	Thickness of paint dry coat, mm
30 minutes	3.4	0.92	0.6
45 minutes	3.4	1.3	0.85
60 minutes	3.4	2.01	1.32
90 minutes	5.8	2.53	1.65
120 minutes	7.8	3.3	2.2

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

**Certificates**

Fire-retardant efficiency is proved by the Conformity Certificate C-RU.ПБ34.В.00712 dated August 29, 2011 and the Conformity Certificate НСОПБ.RU.ПР022.Н.0036 dated August 29, 2011. Safety in use of the fire-retardant paint Stabiterm-207 is proved by the Certificate of Registration RU.78.01.05.008.E.001185.07.13 dd. 25.07.2013. Moreover, each batch comes with a quality certificate confirming the basic physical and chemical parameters.

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## Physical and chemical parameters

External appearance of coating	blind smooth surface
Dry residue, at least %	72.0
Dynamical viscosity (Brookfield viscosity), Pa	180
Density ( $\rho$ ), kg/l	1.25
Dispersion, $\mu\text{m}$	max 50
Thinner	xylene
Volatile organic compound (VOC), g/l	200

## Application Instructions

### Surface preparation

Metal surfaces must be clear of rust, dust, dirt and old paint. Before the application of fire-retardant paint Stabiterm-207 the surface should be primed with GF-021 or phosphating primer Stabiterm-022 (or equivalents). If phosphating primer is applied corrosion areas having sufficient adhesion to metal surface are acceptable.

### Application

Painting of metal structures can be performed using airless spraying devices or brush. 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 in an original packing. In case of thickening it may be diluted with xylene (GOST 9410-78) to application viscosity. Solvent shall be added a little at a time continuously stirring. Important: optimum thickness of first layer is 300-400 microns. Thickness of next layers may be up to 800 microns. The paint is applied in several layers. Interlayer drying is 3-6 hours depending on ambient conditions. Thorough drying time: 24 hours at +20 °C. Coating service life without a protective layer is no less than 25 years inside heated premises if application and service conditions are observed. Coating service life with a protective layer 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 or acetone, before paint drying.

### Storage

Storage in an original unopened packing at temperatures from -40 °C to +40 °C and maximum humidity of no more than 70%. Guaranteed storage period is 12 months.

### Accident prevention

Painting works should be performed in well-ventilated places. When painting, you should use individual protective gears (rubber gloves, safety glasses). 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. Keep out of the reach of children. Discharge of paint remains to sewerage system is not allowed.

**Fire-retardant paint for metal structures Stabiterm 207 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.