STABITERM-225

Water-based fire protection coating for structural steel
Technical requirements TU 2316-014-25572341-2014

Formulation and production of NPF "Fire Protection Laboratory", LLC
Dzerzhinsk town, Nizhny Novgorod region, Russian Federation
Phone/Fax +7(8313) 24-00-11 (multiline)
E-mail: info@stabiterm.ru www.fireprolab.com

PRODUCT DESCRIPTION

Water-based fire protection coating for cable and cable lines "Stabiterm-225" is a complex poly-component system, which is a suspension of intumescent fillers, various functional additives and pigments in water-dispersed film forming. The effect of the coating is based on the intumescence of the applied coating under high temperature exposure and the formation of a foamed heat-insulating layer.

INTENDED USES

The paint is resistant to the effects of the environment, chemically mildly aggressive environments and can be used indoors and in an open atmosphere at temperatures from minus 50^0C to 50^0C.
The fire retardant paint can be applied both to separately laid cables and to cable bundles, as well as to cable metal structures (trays, brackets, hangers).

PACKAGING

20 kg PET bucket "Jet-180", net weight 20 kg

CERTIFICATES

Certificate of conformity for fireproof efficiency - C-RU.ПБ34.В.01842 dd 22.12.15.
A quality passport is issued for the each consignment of goods confirming the main physical and chemical characteristics.

PHYSICAL AND CHEMICAL CHARACTERISTICS

Color	Grey (White-Grey)
Coating external appearance	Smooth matt without pores and cracks
Volume solids	65-69%
Touch Dry at temperature (20±2)°C and relative humidity (65±5)%	No more than 3 hours
Density, kg/m3	1,20 – 1,30 kg/m^3
Thinner	Water

* Time to reach the critical temperature of 500 °C on the sample, min, not less than
** Inverse value of U/A m^{-1}
*** Paint consumption is indicated excluding process losses

USAGE GUIDELINES

SURFACE PREPARATION

The surfaces of electrical cables must be dry and clean (free of dust, dirt, traces of grease, oils and rust), without visible damage to the sheaths and protective hoses. To remove dust, dirt, oil contamination, it is necessary to treat the surface with fire-safe technical detergents using a broom brush and rags. In the case of heavy oil contamination, the surface of the cables must be wiped with organic solvents. It is prohibited to use for these purposes gasoline, acetone and other explosive and flammable liquids, substances and materials, as well as the use of equipment and technology

that can damage the integrity of the cable sheath.

If the fire retardant is applied to cable steel structures (trays, brackets, hangers) without an anti-corrosion coating, then before applying the fire retardant, the metal surfaces must be primed. The soil grade must be approved by the SPF "Fire protection laboratory". It is not recommended to use bituminous or rubber soils.

APPLICATION

Application of a fire retardant paint is carried out on the prepared surfaces of cable lines by airless spraying or using a hand tool (brush, roller).

Work on the application of a fire retardant paint should be carried out at an air temperature of 10^0C to 40^0C, relative air humidity - no more than 80%, the surface temperature must be at least 3^0C above the dew point.

Before use, the fire retardant must be thoroughly mixed throughout the entire volume for 5 minutes mechanically or within 15 minutes manually. The composition is applied in 1-3 layers. The recommended thickness of the first layer is 300 μm, the next up to 800 μm. Interlayer drying time is 3-6 hours under normal conditions (air temperature 20^0C and relative humidity 60%), with a decrease in temperature and an increase in humidity, the drying time may increase. The time for complete drying of the coating under normal conditions is 24 hours. Technological losses during application depend on the method of application, parameters of the treated surface, application conditions.

The total thickness of the dry coating layer must be at least 0.8 mm. In this case, the consumption of the fire retardant is 1.36 kg/m^2 of the cable surface

EQUIPMENT CLEANING.

Clean all equipment immediately after use with clean water. Without waiting for the paint to dry.

TRANSPORTATION AND STORAGE

Transportation and storage temperature range +5°C to +40°C.

Transportation in packaged form by any kind of transport, ensuring the safety of products, in accordance with the rules of carriage of goods, applicable to each mode of transport.

Store in hermetically sealed containers in warehouses on racks or pallets away from heat sources, in conditions that exclude sunlight and exposure to precipitation.

Guaranteed shelf life of fire protection paint - 12 months from the date of manufacture in full compliance with the conditions of transportation and storage.

SERVICE LIFE OF COATING. SAFETY PRECAUTIONS

The guaranteed service life of the fire protection coating under the conditions of open air - up to 20 years, indoors – up to 25 years subject to the conditions of application and operation.

Painting works to perform in accordance with the requirements of GOST 12.3.035 “Occupational safety standards system. Construction. Painting. Safety requirements"

The area in which painting works are conducted should be provided with supply and exhaust ventilation.

Fire protection paint is a low toxic, fire and explosion-proof material. During storage and use does not emit hazardous substances, does not irritate the skin and mucous membranes.

When applying, personal protective equipment should be used.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If the product gets on the skin, wipe with a cleaning

cloth, then wash with soap and water.

Fire protection coating for steel structures "Stabiterm-225" is intended for professional use only!

The information provided in this document is based on current knowledge and practical experience in the use of materials. The manufacturer assumes no legal or other responsibility for the misuse or misinterpretation of this information. The consumer should always request more up-to-date technical data on specific products, information on which is sent on request.

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