BRONYA
SUPERFINE HEAT INSULATION

PR EAST

BRONYAFIREPROTECTION NORD

MANUAL for applying a single-component flame retardant BRONYA FIREPROTECTION NORD

PROPERTIES AND SCOPE OFAPPLICATION:

Fire retardant for metal structures Bronya Fireprotection NORD is designed to increase the fire resistance limit of metal structures in construction, and provides fire resistance of load-bearing metal structures R45, R60, R90 and R120 (45, 60, 90 and 120 minutes, respectively).

THE CONSUMPTION OF FLAME RETARDANT TO ACHIEVE FIRE RESISTANCE:

- 45 minutes with a dry layer thickness of 1.2 mm. It is 1.69 kg/ m2
- 60 minutes with a dry layer thickness of 1.53mm. It is 2.15 kg / m2
- 90 minutes with a dry layer thickness of 2.0 mm. It is 2.82 kg/m2
- 120 minutes with a dry layer thickness of 2.3 mm. It is 3.2 kg/m2

*The consumption is shown without taking into account losses.

When heated, vapors and inert gases are released that do not support and slow down combustion, and a protective substitution of oxygen with gases and vapors is formed. Thus, flame retardants not only block thermal convection at the protected surface, but also significantly reduce and suppress the flame. In this case, the upper layer of the protected surface thickens, coxes and acquires the necessary rigidity. **The composition contains** flame retardants, specialized gas-forming agents, foam layer stabilizers and heat-resistant substances based on a polymer binder.

METHOD OF APPLICATION

The flame retardant is supplied ready for use

The treated surface of metal structures **must be dry and free from all types of contamination:** rust, grease, dust, etc. In accordance with the technical regulations, it is necessary to apply Bronya Fireprotection NORD on primed surfaces (GF-021 primer or analogues).
The flame retardant is applied to metal structures that are not subjected to subsequent machining, leading to the removal of the flame retardant coating. **Mix the composition thoroughly before use,** additional mixing is recommended during the application process to increase fluidity. Dilution with Orthoxylene solvent is allowed. Processing of metal structures is possible with a brush or using an airless spray device with a plunger pump. **The minimum ambient temperature when applying the composition is -35 ° C.** The composition is **applied in 2-3 layers** (depending on the required thickness of the dry layer) **with intermediate drying between layers for 5-6 hours. The total drying time is 24 hours.** The complete set of physical and mechanical properties of the coating occurs within 7 days. Within 30 days from the moment of application, the formation of dents is allowed when pressing on the coating with a force of 5 kg / cm2.

TRANSPORTATION AND STORAGE

It is transported by all types of transport, in accordance with the rules of cargo transportation **at air temperatures from -35 to +35 ° C. The composition should be stored** in an airtight container in a dry heated warehouse, away from fire, heating devices, protecting from moisture and direct sunlight.

MANUFACTURER'S WARRANTY

The guaranteed shelf life of the composition is 12 months from the date of manufacture, subject to the safety and tightness of the container

The service life of the coating (without a protective layer) indoors atambient **temperatures from -40 to +50 ° C is at least 30 years,** subject to theconditions of application and operation. A change in the conditional viscosityof the composition and the formation of a stirred precipitate during storage isnot a reason for rejection if, after mixing and dilution to working viscosity,the paint meets the requirements of technical specifications.

SAFETY REQUIREMENTS

When working on the coating, personal protective equipment should be used:

- special clothing and shoes
- gloves
- special clothing and shoes
- open glasses with side protection

You can ask our technical specialists any additional questions related to the use of the composition Bronya Fireprotection NORD by phone or e-mail