

STABITERM-107

Fire-retardant abrasion-resistant lacquer for wood and wood-based materials

Engineering Specifications TY 2313 – 002 – 25572341 – 2013

Formulation and manufacture of the Research and Production Company

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Product Characteristics

Lacquer Stabiterm-107 is a fire-retardant epoxy-based composition for wood and wood-based materials. The coating is resistant to abrasion and aging.

Application

Fire retardant lacquer Stabiterm-107 is designed for application on wood surfaces and wood-based materials (laminated chipboards, laminated fiberboards, laminated medium-density fiberboards) used indoors and which are subject and not subject to wear in order to reduce their fire risk.

Colour

Transparent. Semi-matte.

Packaging

Lacquer is supplied as a set consisting of the component “A” - 3.75 kg (the BASE) in a bucket “master” and the component “B” - 1.25 kg (HARDENER) measured for mixing into the compound.

Fire-retardant efficiency

When applied the fire-retardant lacquer Stabiterm-107 at a consumption of no less than 350g/m² (excluding losses) provides the 1st (first) class of fire-retardant efficiency, and corresponds to the KM-2 (T1, T2, D2,T2, RP1) fire hazard class of building materials. The specified consumption rate is achieved by applying 1-2 layers.

Service Period is 10 years upon integrity of coating.

Method for checking out the integrity of the coating is a visual inspection.

Frequency of inspection:

- the surfaces subjected to wear - two times a year;
- the surface not subjected to wear - once a year.

Certificates

Fire-retardant efficiency is confirmed by the Conformity Certificate C-RU/ПБ34.4.01225 dated 24 June 2013. It complies with the requirements of the Federal Law dated 22 July, 2008 No. 123-ФЗ, as amended dated 10 July, 2012 rev. No. 117-ФЗ and GOST R 53292-2009.

Physical and chemical parameters

External appearance of product	The basis - a homogeneous viscous liquid. The hardener - a colorless liquid.
External appearance of coating	Transparent semi-matte surface.
Dry residue, at least %	95
Hardness, by TML device, the pendulum “A”	0.35 (achieved after 25 days from the date of application)

Application Instructions

Surface Preparation

The work surface must be dry and clear of dirt, dust and resin sagging; the laminated surface should be degreased. The air temperature is not less than +15 °C and the relative humidity is not more than 60 %.

ATTENTION! When applying on wood, treated with the impregnating and another compounds, it is recommended to make a test application of lacquer in order to determine compatibility.

Application

- 1) Component "A" (the BASE) should be stirred well.
- 2) The component "B" (the HARDENER) should be poured into commercial can with the component "A" and stirred well again. (README! Components are stirred thoroughly, without reserve, in the amount of the 1st tare unit)
- 3) Mixing should be made by mechanical way using a low-speed mixer or doing it by hand in order to avoid a possible excessive heating and air entrainment in the compound.
- 4) Viability of prepared lacquer is 2-3 hours after mixing the components.

Attention! After mixing, a slight heating of 35°-40 °C is admissible.

The lacquer is applied using a brush or a velour roller, the application by the compressed-air atomizer is also possible (working pressure of 4.0 atm.). When applying the lacquer using the compressed-air atomizer, the lacquer should be got to working viscosity by adding xylene or toluene (no more than 5 % - 10 %).

The first layer of lacquer should be applied as a thin primer coating in order to process pure untreated wood.

For the treatment of laminated surfaces the application of the lacquer by one layer is admissible if the requirements for consumption rate are met.

Lacquer drying time depends on the environment temperature: drying time decreases with temperature increasing. On the average, the drying time of one layer is 72 hours at a temperature 20 °C. After this time, the next layer of lacquer may be applied on the surface.

Drying time of applied "out of dust" lacquer layer is about 2-2.5 hours at a temperature of 20 °C, the drying up to the level "3" is about 24 hours. The stabilization of the coating, good hardening and fire-retardant efficiency are achieved no less than after 14 days. Significant acceleration of the coating stabilization process may be achieved by increasing the temperature in the premise.

README! Exclude moisture exposure to the surface while applying the lacquer, as well as to full stabilizing (25 days after application). While exploiting, eliminate long-term (more than 1 hour) moisture impact to the lacquer coating in order to avoid blushing.

Instrument Cleaning

Attention! The lacquer is able to be polymerized and cannot be dissolved more than in 3 hours after mixing the components. Not completely hardened lacquer can be removed from the instrument with acetone.

Storage

Storage life of the lacquer in the original manufacturer's packaging is 6 months. Storage conditions are from -40 °C to +40 °C at relative humidity of 80 %. Increasing the lacquer viscosity under storage does not cause scrapping.

Accident Prevention

Painting works should be performed in a well-ventilated premise. When working, use personal protective equipment (goggles, dust mask, and gloves). In case of contact of the lacquer with skin, wipe this place with a cloth moistened with acetone and then wash out with warm water and soap.

Fire-retardant lacquer Stabiterm-107 for wood and wood-based materials 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.