

Description

Double-packed composition consists of polymer ink containing dispersed abrasive material and ethyl silicate binding agent.

Recommended use

ZFES-A composition is designed to increase the friction coefficient of friction joints contact surfaces of steel structures on high-strength bolts. It is applied only in the complex coating with the ZFES zinc-rich primer (TU 20.30.12-004-12288779-2017). For the period of interoperational storage of structures, the coating provides additional protection against weather impact.

ZFES+ZFES-A complex coating is designed for operation in the atmospheric conditions of all macro-climatic regions, types of atmosphere and placement categories according to GOST 15150.

Certificates, approvals

Certificate of state registration No. RU.66.01.40.015.E.000122.07.18 dated 05.07.2018

Technical data

	Coating	
Appearance and color		Semi-transparent rough-surfaced
	Composition	
Density, g/cm ³		0.9-1.1
Viscosity		thixotropic
Non-volatile matters, %		29.0-34.0
Pot life after mixing, h		8, not less than
Drying time to 3 degree (GOST 19007-73) at temperature (20±2)°C and relative air humidity (65±5)%, min		30, not more than
Theoretical spreading rate of one-layer dry coating at a recommended dilution of 10 % by mass, g/m ²		160.0

Surface preparation

Priming zinc-rich ZFES coating should be cleaned of impurities, if necessary degreased with aqueous solutions of detergents with a pH of 6 to 8 (allow light degreasing with white spirit) and free of dust.

Application

- mix the composition base (polymer ink) thoroughly to a homogenous condition;
- add the binding agent in the mass proportion of 100:13.4 with constant mixing;
- dilute with SOLV-ES solvent (TU 2319-080-12288779-2009) by 10 % by mass;
- mix to a homogenous condition repetitively actually before application.

The composition should be applied in one layer by air spray (if necessary - with a roller or brush) at a temperature from minus 15°C to plus 40°C and relative humidity of air from 30 % to 80 % (aimed from 50 to 80 %).

When painting, it is necessary to use paint-spray guns with an upper tank, working on the technology HVLP (high volume, low pressure).

The parameters are given in the table:

Conventional (air) spray

Recommended thinner	SOLV-ES (TU 2319-080-12288779-2009)
Quantity	10 % by mass
Nozzle diameter	1.8 - 2.2 mm
Pressure	0.2 - 0.3 MPa (2 - 3 bar)

Brush/roller

Recommended thinner	SOLV-ES
Quantity	10 % by mass

Equipment cleaning

SOLV-ES, thinner 646

Storage and handling

The composition is delivered in packages: base packed in metal buckets or cans (depending on the weight) and binding agent packed in metal cans.

Storage and transportation conditions of composition – according to GOST 9980.5-2009 – (at air temperature from minus 40 °C to plus 40 °C). The composition and its components must be stored in the hermetically enclosed original container away from heat sources. The container with composition components shall be protected from atmospheric condensation and direct sunlight.

The shelf life of composition components in the hermetically enclosed original container is 6 months starting with the manufacture date.

Precautions

When working with the composition, one shall observe the existing sectoral standard norms and requirements and safety measures as specified on the package label.

Personal protective equipment (goggles, face masks and respirators) shall be used, inhalation of thinners and contact of the composition or its components with skin, ocular mucosa, respiratory channels shall be avoided; use inside the premises is allowed only in case sufficient ventilation is provided.

The composition is classified as a fire-hazardous material.

The information is of general character, without consideration to the object specific nature. Use of materials for other purposes not specified here or in case other influencing factors are present shall be approved by the Close joint stock company "VMP research & production holding" in writing. In case of absence of such approval the manufacturer is not held liable for the improper use of the material and the buyer falls from the right to present claims connected with the coating quality.



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