

PLAMCOR®-302

intumescent fireproof epoxy composition
(TS 20.30.22-123-12288779-2020)



Description

Epoxy fire protection composition designed for the protection of steel structures against cellulosic fire conditions. Two-pack, consisting of base and amine type hardener. The coating is weather-resistant, does not require reinforcing.

Suitable for application in factory conditions and at the construction site with an ambient air temperature of up to minus 5 °C.

Recommended use

Protection of steel structures operated under the atmospheric conditions of the moderate, moderately cold and cold microclimatic areas of all types of atmosphere and placement categories according to GOST 15150, including in an open industrial atmosphere.

It is used as a fire-resistant layer in a complex coating system for the protection against corrosion and fire. It is applied to primer coatings ZINEP, ISOLEP-primer, ISOLEP-mastic, VINICOR-ecoprime-01 or other primers in coordination with the manufacturer of fire-resistant composition.

When used under the conditions of intensive UV radiation, it is recommended to overlap it with top coats POLYTON-UR (UV), VINICOR-62 as well as polyurethane and vinyl epoxy or other top coats in coordination with the manufacturer of the fire-resistant composition.

Technical data

	Coating
Coating color	Light gray, shade not regulated
Thickness of one dry layer when applied, mm:	
- airless spraying	2 – 4
- spatula or brush	1 – 2
Adhesion according to ASTM D 3359, point	4A, at least
	Composition
Pot life at of (20±2) ° C, h	at least 1
Theoretical spreading rate of one-layer coating with a thickness of 1 mm, kg/m ² :	
- when applying by airless method	1.1
- when applying by spatula and brush	1.3
Drying time to grade 3 (GOST 19007) at (20±2) °C and relative air humidity (65±5) %, h	not more than 12

Surface Preparation

The primer coating shall be pre-cleaned, degreased, free from dust and moisture, it must not have damages in the form of corrosion, peeling and cracking.

All damaged areas of the primer coating must be repaired.

The recommended primer coating thickness is from 40 to 150 µm. The time of interlayer drying of the primer coating before applying the PLAMCOR-302 composition must be taken in accordance with the technical specifications for the primer.

Application

DESIGNED FOR PROFESSIONAL APPLICATION

It is recommended to use airless units with split supply and heating of components for application, as well as modified one-component units. Applying by spatula and brush is also permissible.

Preparation of composition for applying with spatula, brush or modified one-component units:

- mix the base and hardener (each component separately) until homogeneous in a transport container using mixer;
- while stirring constantly, add hardener to the base (the ratio of base and hardener by mass is 3.6:1).

The hardener remaining on the container walls shall be washed off by adding a small amount of SOLV-UR solvent (TS 2319-032-12288779) and pouring it into the base, after which you shall mix the components until the homogeneous consistency.

- dilute to working viscosity with thinner immediately before application.

The prepared composition shall be used within 1 hour (at an ambient air temperature of (20 ± 20) °C, when the temperature is increased, the time shall be reduced.

Conditions of composition application – at a temperature from -5 to plus 35 °C and relative humidity up to 80%.

Recommended thickness of one layer is:

when applied with the airless spraying, spatula from 1 to 3 mm;
with a brush – 1-2 mm.

Recommended application parameters:

Airless spraying

Recommended thinner	SOLV-UR (TS 2319-032-12288779-2002), petroleum solvent
Solvent quantity	up to 5% by mass
Nozzle diameter	0.031"-0.047"
Pressure	25-35 MPa (250-350 bar)

Spatula

Recommended thinner	SOLV-UR, petroleum solvent
Solvent quantity	up to 5% by mass

Equipment cleaning

SOLV-UR, petroleum solvent

The coating is dried in a natural way. Drying time depends on the temperature, when it increases, the drying time decreases.

Each subsequent layer of the composition shall be applied not earlier than 12 hr at (20 ± 2) °C after applying the previous layer. At low temperatures the time of interlayer drying of coatings shall be increased.

The time of full drying of PLAMCOR-302 coating at a temperature of (20 ± 2) °C – not less than 7 days (depending on the temperature, as it increases, the time shall be reduced).

If necessary, fire-resistant coating can be coated with one or two layers of finishing enamel with a thickness of 50 to 150 µm. The minimum holding time of PLAMCOR-302 coating until the application of finishing enamels – at least 24 h; the maximum time is not more than a month (at a temperature of (20 ± 2) °C).

Fire-resistant coating damaged during operation shall be repaired: the damaged coating shall be removed and restored to the required thickness.

Packaging and storage

PLAMCOR-302 composition is supplied as a complete set: base and hardener, packed in metal buckets with a volume of 20 l and 5 l, respectively.

Storage conditions in accordance with GOST 9980.5 (at ambient temperatures from minus 40 to plus 40 °C away from heat sources). During storage, the container must not be exposed to precipitation and direct sunlight.

The warranty storage period of the base and hardener of the composition in a hermetically sealed manufacturer's container is 12 months from the date of manufacture.

Precautions

When working with the composition, one shall observe the corresponding industrial standards and requirements and safety measures indicated on the container label.

It is necessary to use personal protective equipment (goggles, masks, respirators), avoid inhalation of thinners during evaporation and contact of the composition with skin, eye and respiratory ways mucous membrane; use the material indoors only with sufficient ventilation.

The composition is classified as flammable material.

The given information is of a general character, not site-specific and should be considered together with the application manual. Use of materials for other purposes or under the influence of other factors must be confirmed in writing by AO VMP Research and Production Holding. If it is absent, the manufacturer is not responsible for the incorrect use of the material and the buyer loses the right to raise claims and satisfy the demands related to the quality of the coating.



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