PLAMCOR®-6

thermal insulation composition
(TS 20.30.22-121-12288779-2019)

VMP®
1991
Quality management system
is certified according to ISO 9001

Description

This is a two component epoxy high solids insulant, syntactic foam.
PLAMCOR-6 may be applied when the surrounding air temperature is at a minimum of 5°C

Recommended use

The coating is used in systems to provide both thermal insulation and corrosion protection as a component of the structural combined fire protection with thin-film fireproof intumescent coatings of the PLAMCOR series: PLAMCOR-2, PLAMCOR-3, PLAMCOR-5, PLAMCOR-302, PLAMCOR-303 to increase the fire rating.

Suitable for use in atmospheric conditions of all macroclimatic regions, types of atmosphere and placement categories, including exterior environments of industrial atmospheres. The choice of a constructive combined fire protection system depends on the operating conditions.

The surface must be primed beforehand; recommended primers: ZINEP, ISOLEP-primer, ISOLEP-mastic, GF-021 (ГФ-021) and others – by agreement with VMP.

Certificates

State registration certificate RU.66.01.40.008.E.000088.07.19 dated 05.07.2019.

Conformity certificates № ЕАЭС RU C-RU.HB77.B.00275/22 dated 05.07.2022, № ЕАЭС RU C-KZ.HE46.B.00006/23 dated 28.09.2023, № ЕАЭС RU C-KZ.HE46.B.00017/23 dated 27.12.2023, № ЕАЭС RU C-KZ.HE46.B.00018/23 dated 29.12.2023, № ЕАЭС RU C-KZ.HE97.B.00014/24 dated 12.04.2024, № ЕАЭС RU C-KZ.HE97.B.00052/24 dated 14.10.2024, № ЕАЭС RU C-RU.HK02.B.00030/25 dated 20.03.2025, № ЕАЭС RU C-KZ.АД67.B.00183/25 dated 29.04.2025, № ЕАЭС RU C-KZ.HE97.B.00101/25 dated 29.05.2025, № ЕАЭС RU C-RU.HE97.B.00124/25 dated 19.08.2025, № РОСС RU.31675.04ПБК0.ОС42.001934 dated 02.03.2022, № РОСС RU.М704.04ЮАБ0.НСОПБ.RU.ЭО.ПР.440.Н.00037 dated 27.08.2025, № РОСС RU.М704.04ЮАБ0.НСОПБ.RU.ЭО.ПР.440.Н.00038 dated 27.08.2025.

Conformity certificate № РОСС RU.АМ05.Н09416 dated 25.01.2022, № РОСС RU.АМ05.Н11132 dated 14.03.2022, № РОСС RU.04ПТК0.С00463 dated 13.11.2023, № РОСС RU.32001.04ИБФ1.ОСП28.54969 dated 14.06.2024, № РОСС RU.32001.04ИБФ1.ОСП28.67243 dated 24.12.2024 (seismic stability).

Technical Data

	Coating
Appearance and color	Light pink, the shade is not standardized
Dry film thickness (typical):	
- airless spray	1,5 - 3mm
- trowel	1 - 3mm
Adhesion acc. to ASTM D 3359	4 A, not less
	Composition
Density (GOST 31992.1), g/cm^3	0,64-0,74
Pot life at (20±2)°C	1 hour, not less
Volume solids, %	94±2
Theoretical spreading rate per coat of dry film thickness 1000 μ	0,7 kg/m^2
Drying time to 3 degree (GOST 19007) at a temperature of (20±2) °C and relative air humidity (65±5) %	12 hours, not more

Surface Preparation

The surface must be primed beforehand.

The primer coating shall be cleaned from dirt, dust, degreased, dry, undamaged, not have any corrosive degradation. All damaged areas should be resurfaced.

Application

Preparation for use:

- stir thoroughly until homogeneous using power agitator (base and hardener separately);
- while stirring add the hardener (mixing ratio 3.6:1 by weight and 3.9:1 by volume);

Rinse the hardener remaining on the walls of the container by adding SOLV-UR thinner and pour into the base, then mix the components to a homogeneous consistency.

During storage and transportation, compaction of the base is possible, which is not is a rejection feature, but may require longer mixing.

The working pot life of the composition after mixing is 1 hour (at a temperature (20±2)°C), if the temperature is higher the working pot life reduces.

- add thinner to reach working consistency directly prior to application.

Application conditions: at temperatures from minus 5 to plus 30 °C and relative air humidity not exceeding 80 %.

The composition prepared for application must have a temperature of at least plus 15 ° C.

Recommended application:

Airless spraying

(air-powered pump drive, ratio not less than 57:1)

Recommended thinner	SOLV-UR (TS 2319-032-12288779-2002), SOLV-EP (TS 20.30.22-106-12288779-2018), solvent
Quantity of thinner	up to 10 % by mass
Nozzle size	not less than 0,025 "
Pressure	not less than 25 MPa (250 bar)

Trowel

Recommended thinner	SOLV-UR, SOLV-EP, solvent
Quantity of thinner	up to 5 % by mass

Equipment cleaning SOLV-UR, SOLV-EP, solvent

The process provides for natural drying. The drying time depends on the temperature; if it increases the drying time reduces.

It is recommended to apply the PLAMKOR-6 coating in one layer. If it is necessary to apply an additional layer, the interlayer drying time should be taken according to the table:

Drying degree	Holding time depending on ambient temperature							
	-5 ºC	0 ºC	+5 ºC	+10 ºC	+15 ºC	+20 ºC	+25 ºC	+30 ºC
Before applying the next layer	42 h	28 h	20 h	14 h	10 h	7 h	5 h	3 h

The overcoating intervals are shown in the table:

Primer	Overcoating interval with PLAMCOR-6 at +20 °C		Constructive combined fire protection			
			Thermal insulation	Overcoating interval with fireproof intumescent coating at +20 °C		Intumescent fireproof coating
	Min	Max		Min	Max	
ISOLEP-primer	2 h	6 months	PLAMCOR-6	12 h	3 weeks	PLAMCOR-3, PLAMCOR-5, PLAMCOR-302, PLAMCOR-303
ZINEP	3 h	1 year				
ISOLEP-mastic	6 h	6 months				
GF-021	24 h	no limit		24 h		PLAMCOR-2
* For other primers – by agreement with VMP						

At low temperatures, the time of interlayer drying of the coating layers should be increased.

The time of drying for service of the PLAMCOR-6 coating at a temperature of (20±2)°C is at least 7 days (it depends on temperature, with its increase the time is reduced).

Service life of the coating

Fire-protective coating PLAMKOR-6 as part of a complex coating with fire-protective intumescent compounds of the PLAMKOR series, with a primer and topcoat enamel has a service life of at least 20 years when used in an open atmosphere of moderately cold and cold climates according to GOST 15150.

The coating maintains its fire protection efficiency for the specified period in the absence of mechanical damage and constant moisture condensation. After the specified period, the fire protection coating is subject to replacement with complete removal of the existing layer and its subsequent restoration.

Packing and Storage

The unit of PLAMCOR-6 is supplied as The Base in 20 litre metal containers and Curing Agent in 3 litre metal containers.

The product must be stored in accordance with GOST 9980.5 at ambient air temperature from minus 40 to plus 40 °C, away from sources of heat. During the storage, container with the material shall not undergo influence of atmospheric precipitation and direct sun beams.

Shelf life of the composition in tightly closed manufacture's containers is 12 months from the production date.

Precautions

Observe the industrial requirements and the precautionary notices displayed on the container.

Use appropriate personal protection equipment (goggles, face masks and respirators) when using this product and avoid inhalation of solvents and contact of the composition substances with skin, eye mucosa, respiratory channels; 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 and it is recommended to be read with the Operating Procedure. Use of materials for other purposes not specified here or in case other influencing factors are present shall be approved by the VMP Holding CJSC 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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