PLAMCOR®-6

thermal insulation composition
(TU 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-1, PLAMCOR-2, PLAMCOR-3 and PLAMCOR-5 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 № RU C-RU.ПБ34.В.00357/19 dated 06.12.2019, № RU C-RU.ПБ34.В.00227/19 dated 09.09.2019, № RU C-RU.ПБ34.В.00147/19 dated 31.05.2019.

Conformity certificate № РОСС RU.АМ05.Н06046 dated 30.08.2019 (seismic stability).

Technical Data

Coating	
Appearance and color	Light pink, the shade is not standardized
Dry film thickness (typical):	
- airless spray	2 - 4mm
- trowel	1 - 3mm
Adhesion acc. to ASTM D 3359	4 A, not less
Composition	
Density (GOST 31992.1), g/cm^3	0,60-0,70
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) %	7 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 Curing Agent (mixing ratio 4:1 by weight);

Rinse Curing Agent 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.

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 shall be applied by airless spraying or trowel in 1-5 layers depending on the required thickness.

Recommended application:

Airless spraying

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

Recommended thinner	SOLV-UR, solvent
Quantity of thinner	up to 10 % by mass
Nozzle size	not less than 0,035 "
Pressure	not less than 30 MPa (300 bar)

Trowel

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

Equipment cleaning SOLV-UR , solvent

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

The overcoating intervals are shown in the table:

Primer	Overcoating interval with PLAMCOR-6 at a temperature of plus 20 °C		Constructive combined fire protection			
			Thermal insulation	Overcoating interval with fireproof intumescent coating at temperature of plus 20 °C		Fireproof
	Min	Max		Min	Max	
ISOLEP-primer	2 h	6 months	PLAMCOR-6	7 h	3 weeks	PLAMCOR-1, PLAMCOR-2, PLAMCOR-3, PLAMCOR-5
ZINEP	3 h	1 year				
ISOLEP-mastic	6 h	6 months				
GF-021	24 h	no limit				
* 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).

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.

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