

PLAMCOR-2

Intumescent fireproof coating
(TU 2313-074-12288779-2008)



PRODUCT DESCRIPTION:

A high build, one-component, solvent-born intumescent fireproof acrylic coating.

RECOMMENDED USE:

For fire protection of structural steel of industrial and civil engineering in atmospheric conditions of the moderately cold and cold climatic regions, I и II types of atmosphere; 2, 3 and 4 categories of location according to GOST 15150-69 at the relative humidity not more than 80%. **It has no water resistance.**

PLAMCOR-1 is applied as an intermediate or finish in PLAMCOR coating systems for corrosion and fire protection of structural steel. It is recommended to use with ZINEP® (TU 2312-022-12288779-2000), ZFES® (TU 2312-004-12288779-99), ZINOTAN® (TU 2312-017-12288779-2003) и GF – 021, and other types of primers according to recommendations of VMP GROUP.

POLYTON-UR (TU 2312-029-12288779-2002) и POLYTON-AK (TU 2313-028-12288779-2002) may be used as topcoats.

The groups of fire retardant efficiency are 3 и 4, NPB 236-97. PLAMCOR-2 provides fire resistance of metal construction up to 90 minutes depending on dry coat thickness and steel thickness. Fire-resistance limit of metal constructions by loss of strength, GOST 30247.0-94, is:

Metal thickness, mm	Film thickness, mm	Fire-resistance limit, minutes
3.4	1.23	45
3.4	1.48	60
5.9	1.90	90

CERTIFICATES/APPROVALS:

The sanitary-and-epidemiologic certificate № 66.01.40.213.P.000058.01.09 / 19 January 2009; Certificate of fire safety № SSPB.RU.OPO73.B.00678 (compulsory certification) и № SPPB.RU.OPO73.H.00240 (voluntary certification); Conformance certificates: № DSPB.RU.PRO22.A.0013 and № DSPB.RU.PRO22.A.0014; Register of NK RosNeft OJSC.

TECHNICAL DATA:

	Coating
Color/Finish	White/Flat
Dry film thickness per coat (typical): - airless spray	400 - 800 microns in 10 times, not less
Intumescent coefficient	
	Paint
Specific gravity	1.20 – 1.40 g/ml
Non-volatile matter content (Wt)	66.0 – 70.0 %
Calculated coverage	460 – 770 g/m ² (400 - 800 microns)
Drying time up to degree No 3 GOST 19007-73 ("touch-dry") at (23±2) °C and (65±5) % RH	3 h, not less

SURFACE PREPARATION:

The primer surface should be dry and free from all contamination.
All areas of damage of primer coating should be repaired.

APPLICATION:

- Stir thoroughly;
- Add recommended thinner to achieve workable consistency if it is necessary.

PLAMCOR-2 may be applied at the temperature from -15 °C to +40°C and up to 80% RH. If temperature is lower contact VMP GROUP for advice.

The coating is not waterproof. When it is applied and exploit avoid influence of moisture, condensate and other source of water.

Airless spray

Recommended Thinner SOLV-UR (TU 2319-032-12288779-2002) or Solvesso 100, xylene, butylacetate up to 10 % by weight
Nozzle size 0.019 – 0.031" (0.48 – 0.79 mm)
Nozzle pressure 21 MPa (210 bar), not less

Brush

Recommended Thinner SOLV-UR (TU 2319-032-12288779-2002) or Solvesso 100, xylene, butylacetate up to 10 % by weight

Equipment cleaner

SOLV-UR (TU 2319-032-12288779-2002) or Solvesso 100, butylacetate

PLAMCOR-2 should be applied in 2-5 coats depending on required group of the fire retardant efficiency of the coating and steel thickness. The first dry film thickness must not be more than 200 microns (400 microns wet film thickness).

Minimum recoating interval of primers is 7 days, not less; otherwise sagging or cracking of PLAMCOR-2 may occur (especially on GF-021).

Recommended dry film thickness (300-500 microns) is achieved by airless spray method, if brush is used it is necessary more coats. If dry film thickness is more than recommended defects (cracking, craters) may occur.

Every next coat of PLAMCOR-1 should be applied after drying of the previous coat during 24 h at (20±2) °C. If temperature is lower recoating interval should be increased.

Minimum recoating interval of PLAMKOP-1 is 24 h, not less

The time of full cure at (20±2) °C is 10 days, not less. If temperature is higher time of full cure decrease.

PLAMCOR-2 is maintainable.

STORAGE AND HANDLING:

Shipping weight is 22 and 1 kg in plastic cans.

Store in dry, shaded conditions away from sources of heat, moisture and ignition, at the temperature from - 45 °C to +40°C; GOST 9980.5-2009.

Guaranteed shelf life in the manufacturer's package units is 12 months from the date of packaging.

SAFETY PRECAUTIONS:

It is necessary to follow all local or national safety regulations.



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