

# PLAMOSTOP

# P9



## Technical Data Sheet

### Description:

Water-based fire protective intumescent coating material

### Usage:

Special one-component middle-layer coat for fire protection of steel construction in the environment type "Y" - indoor environment and partial exposure. Possible use only in the VitoFire V1-V4 systems certified for the EU corresponding to ETAG 018. The film thickness of Plamostop P9 is necessary to calculate particularly for every object. It is also used to increase the fire resistance of reinforced concrete structures, based on the determination of the concrete thickness equivalent to increase the tension of reinforcement, calculated according to the dimension table. It can be applied by a roller, brush or airless-spraying. Applicable only by a trained person possessing a valid certificate. Appropriate priming coats: KG 13 or ZG 13, finishing coats: KD 53, PE 33 for reinforced concrete structures.

### Certificates, protocols:

Classification of Fire Resistance Nr. PK2-16-11-004-A-0, system for protection of steel members in accordance with EN 13501-2+A-1:2009:7.4.6.5, Pavus a.s.

Classification of Fire Resistance Nr. 1532T08-4 SUP.2 according to UNE-ENV 13381-4:2005, Afiti Licof Centre for Fire Testing and Research

ETA 13/0926, Aithon A90H, Union beige pour l'Agrément technique de la construction A.S.B.L.

### Substrate:

Steel, zinc, reinforced concrete

### Colours:

0100 - nestandardizovaný, bílý

### Specific gravity: (ČSN EN ISO 2811-1)

1,39 g/cm<sup>3</sup>

### Solids: (ČSN EN ISO 3251)

by weight 71 %

by volume 60 %

### Theoretical spreading rate: (ČSN EN ISO 23811)

undiluted paint			
100 µm DFT	4,2 m <sup>2</sup> /kg	5,8 m <sup>2</sup> /liter	238,0 g/m <sup>2</sup>
400 µm DFT	1,1 m <sup>2</sup> /kg	1,5 m <sup>2</sup> /liter	951,0 g/m <sup>2</sup>

To reach 100 µm DFT apply 167 µm undiluted paint. Practical spreading rate depends on application method and conditions, shape and roughness of the surface.

### Drying: (ČSN 673052)

400 µm WFT, temperature 23 ± 2°C, relative humidity 50 ± 5%, for airless application	surface dry (grade 1)	to touch (grade 3)	to manipulation (grade 4)
	30 minutes	8 hours	24 hours

Drying and recoatability time strongly depend on wet film thickness, temperature, humidity, ventilation and paint colour. Fully load and measure the coated film after 7 days, laboratory testing after 3 weeks of drying under the above conditions.

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### Gloss: (ČSN ISO 2813)

Matt 2 GU, angle-wise 60°, for airless application

### Supply viscosity:

Thixotropic liquid unmeasurable by ISO outflow cup type

### Recommended dilution: (ČSN 673032)

	airless	brush/roller
thinner	water	
by weight	2 %	not dilute
by volume	3 %	not dilute

### Sagging: (ČSN EN ISO 16862)

temperature 23 ± 2°C, relative humidity 50 ± 5%	
for airless application	no sagging 600 µm WFT

### Application conditions:

The surface must be dry. The air, surface and paint temperature cannot decrease below +5°C during application and drying. Relative humidity cannot exceed 80%. The surface temperature must be at least 3°C above the dew point. Application can be carried out only by a company familiar with the application technology and complying the application conditions according to the specifications in the Fire-resistance rating statement PK2-16-08-001-C-0 from 19th March 2008. The company must possess a written certificate issued by VITON s.r.o.

### Surface preparation:

Remove oil, grease, salt and other contamination from the surface with a suitable detergent according to ČSN EN ISO 12944-4.

Steel surfaces: Abrasive blast-cleaning to Sa 2½, alternatively manual or mechanical cleaning to min. St 3 corresponding to ČSN EN ISO 8501-1.

Galvanized substrate: Appropriate recommended priming coat necessary (e.g. ZG 13). This coating material is not intended for a direct application on this type of surface.

Previously painted surfaces: Remove oil, grease, salt and other contamination from the surface with a suitable detergent, sanding of the surface recommended. Repair all damage to the coating with an anticorrosive primer. Observe the compatibility of preceding and subsequent coats.

Mineral surfaces: Remove oil, grease, salt and other contamination from the surface with a suitable detergent, sanding or blast cleaning as needed. Remove the residual grit by brushing or vacuum cleaning. In case of highly strained systems it is necessary to test the solidity of the mineral surface. Observe the compatibility of preceding and subsequent paints when renovating previously painted surfaces.

### Application method:

Airless spraying, airmix spraying, brush or roller.. For airless spraying use the nozzle orifice of Ø 0.011" - 0.021", nozzle pressure: 120 - 180 bar, adjust the angle of application to the shape of the surface. For airmix spraying use the nozzle orifice of 1.5 - 2 mm, nozzle pressure: 3 - 4 bar. For application by brush/roller select appropriate equipment according to the paint type and viscosity.

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## Technical Data Sheet

**Storage:**

in the original unopened packaging at temperatures between +5°C and +25°C. CANNOT FREEZE!

**Shelf life:**

48 months

**Packaging in kg:**

20

**Notes:**

DFT - dry film thickness  
WFT - wet film thickness

MS - medium dry matter  
HS - high dry matter

GU - Gloss Unit  
KU - Krebs unit of viscosity

All information given in this technical data sheet are based on our best knowledge, laboratory test results and practical experience to the date specified below. According to the fact that the conditions of the product's use are out of our control, we can only guarantee the product quality itself. As a producer we cannot be responsible for damage arising from the use of the products without following above recommended instructions or for improper purposes. We reserve the right to change above specified information without prior notice. Always request the actual version of the product data sheet. This technical data sheet replaces all previously released. The validity of the data provided here will be terminated automatically after five years.

