



TECHNOLOGICAL REGULATION №.11/1
INVAMAT 670M FIRE RETARDANT
FOR METAL STRUCTURES





TECHNOLOGICAL REGULATION FOR APPLICATION OF INVAMAT 670M FIRE RETARDANT

INVAMAT 670M composition for constructive fire retardation of metal structures is intended for applying fireproof coatings of intumescent type with a thickness of 3 mm or more.



Applications

- Fireproof coatings of intumescent type providing the required fire resistance of load-bearing elements of metal structures
- Fire protection of air ducts

Advantages

- Can be applied by a brush or sprayer
- Rapid application and economical use
- No mesh reinforcement required
- Labor intensity is much lower
- Can be used in buildings of I and II category
- One-component, ready-to-use formulation.
- Can be used on top of a wide range of primer
- Does not emit harmful substances during application and storage. The solvent is water.
- Has no harmful effect on the human body and animals.
- Does not require high qualification of personnel and additional equipment.

SPECIFICATIONS OF INVAMAT 670M:

Density, g/cm ³	1,35 g/cm ³
Appearance	Dark gray highly viscous paste
Appearance of dried surface	Dark gray coating
Application temperature, °C	From +5 to + 40
Drying time	1 mm/24 hours
At + 20°C and relative air humidity of 50%	+ 140
At + 10°C and relative air humidity of 80%	50-75
Operating temperature	From – 40°C to + 60°C
Mass fraction of non-volatile substances, %	68
Consumption at a layer thickness of 4 mm, kg/m ²	6,07 kg/sq.m.



Russian tests and certification are passed:

Serial production according to TU-20.30.22-180-001-37166468-2017, complies with GOST R 53295.



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According to the new edition of GOST R 53295, such coatings are classified as constructive fire protection and can be used in buildings of I and II category to provide the required fire resistance of load-bearing elements. When INVAMAT 670M is used, mesh reinforcement is not required, the labor intensity of fireproofing of metal structures with INVAMAT 670M is significantly lower than with traditional structural materials, such as basalt, fiberglass, vermiculite plates and mats.

INVAMAT 670M fire retardant for metal structures is a complex system of organic and inorganic components in the form of an intumescent paste.

APPLICATION MANUAL

- The surface to be protected must be free of dust and dirt, and degreased.
- Protected surface must be primed.
- The application temperature is not lower than +5 °C, the relative air humidity is not more than 80%, the surface temperature of the metal structure should be not less than 3 °C above the dew point.
- The fire retardant shall be applied to the prepared surfaces layer by layer, using a hand tool (spatula, roller) or by airless or air spraying methods.

PRECAUTIONS.

- INVAMAT 670M fire retardant for metal structures during storage and operation does not emit substances harmful to human health, does not irritate the skin and mucous membranes. In case of contact with eyes, rinse with water.
- INVAMAT 670M fire retardant for metal structures is not a dangerous cargo and can be transported by all types of covered transport in accordance with the rules applicable for such type of transport.

PROPERTIES:

WARRANTY PERIOD OF STORAGE is 12 months from the date of delivery in unopened original packaging in an enclosed premises at a temperature of +5 °C to +40 °C.

PACKAGING.

INVAMAT 670M fire retardant for metal structures is supplied in plastic buckets of 10 and 20 kg.

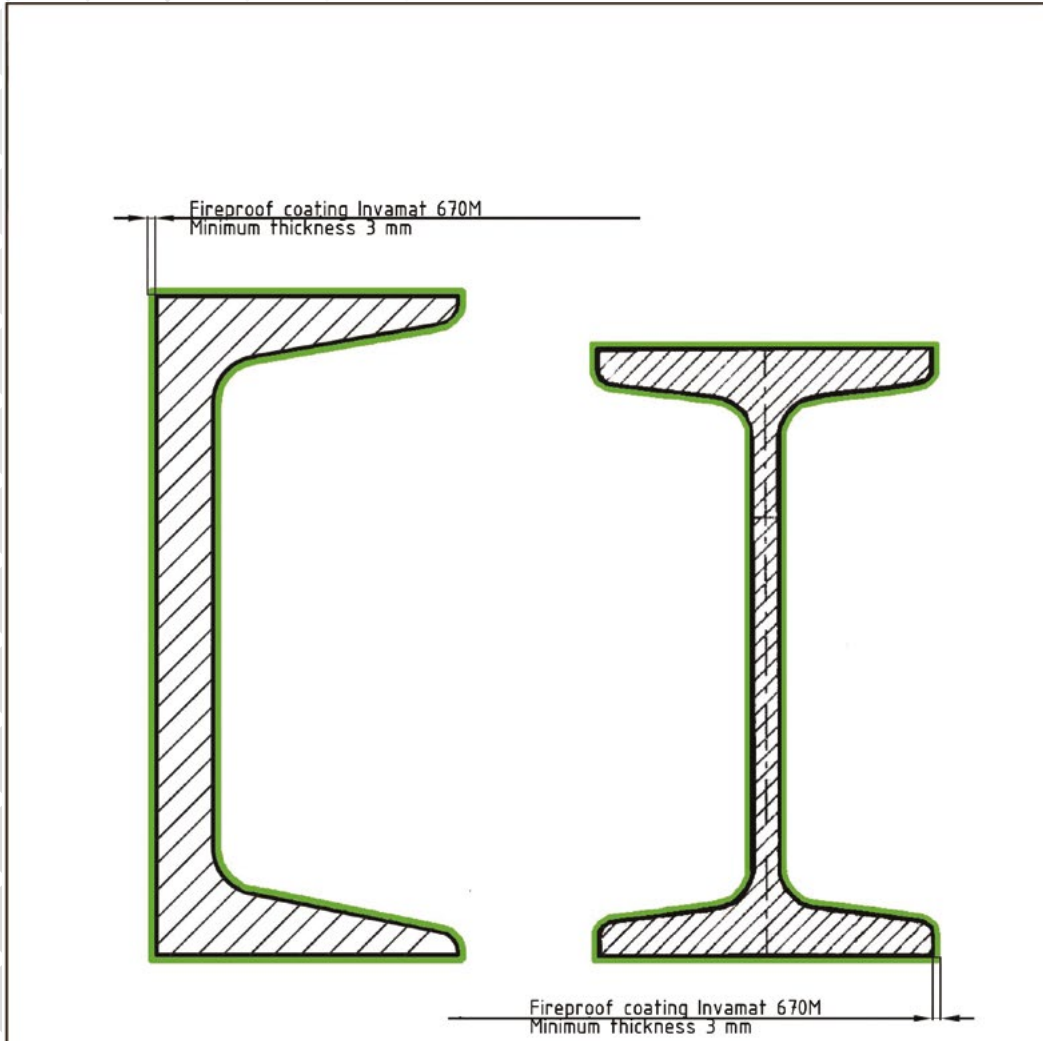
STORAGE AND TRANSPORTATION.

INVAMAT 670M fire retardant for metal structures is stored and transported at temperatures from 0 °C to +40 °C. It does not require special measures for storage and transportation.



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Structural fire protection of metal structures using INVAMAT 670M



Note:

- 1) Recommended thickness of the layer applied in one pass is not more than 1.5 mm
- 2) Application of the second layer after 24 hours
- 3) Constructive fire protection is achieved at a minimum thickness of a dry layer of 5 mm (EIT 60)
- 4) Recommended application thickness of Invamat 670M is 4 mm (EIT 60)
- 5) Paining of the fireproof coating Invamat 670M is not allowed

						Fireproof chemistry		
изм.	кол.уч.	лист	№ док.	Подп.	Дата	Стадия	Лист	Листов
Разраб.	Донских					П	1	
Проб.	Виноградов							
						Application of a thermoexpanding fireproof coating Invamat 670M		



SAFETY INSTRUCTIONS



- S 2 Keep out of the reach of children.
- S 23 Do not inhale vapor.
- S 51 Use only in well-ventilated areas.
- S 24/25 Avoid contact with eyes and skin.
- S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S 28 If foam contacts the skin, immediately wash it off with soap and water.
- S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- S 45 In case of accident or if you feel unwell, call a physician immediately (show this label if possible).