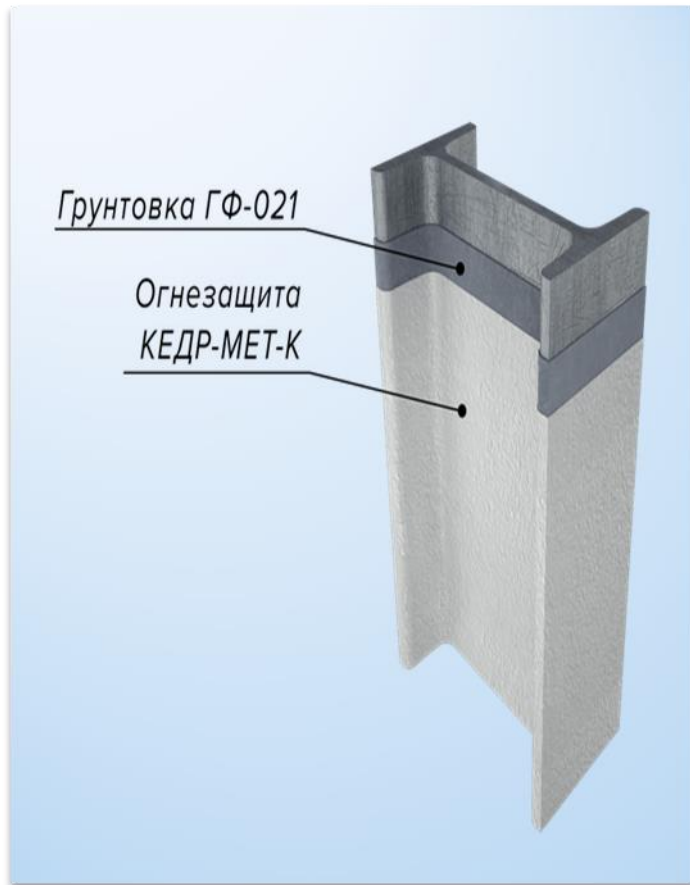




# PASSIVE FIREPROOF COATING for protection of steel structure «KEDR-MET-K»



## APPLICATION



- KEDR-MET-K is used for protection of steel structures in buildings and structures of various purposes.
- KEDR-MET-K is applied in confined areas at temperatures from  $-50^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  with relative humidity up to 80%.
- KEDR-MET-K is a water-based emulsion.
- KEDR-MET-K is an intumescent coating which enhances fireproof characteristics of steel in duration from 45 to 90 minutes.

## ADVANTAGES

High physical and mechanical index of coating:

- Elastic
- Shockproof
- **High vibration resistance** (applied in seismically zones up to 9 degrees of Richter scale).
- **Low temperature resistance** (endures 4 freeze-thaw cycles).
- **Low cost** (in relation to high fireproof indicator).

## TECHNICAL AND EXPLOITATIONAL PARAMETERS

KEDR-MET-K is a water-based intumescent fireproof coating, prepared for application, containing all the necessary additives.

Color	White or light beige
Coating density (20°C), g/cm <sup>3</sup>	1,30-1,40
Dry residue, %	63-68
Drying time (20°C), hours	24
Application temperature, °C	From +5 to +40
Transport and storage temperature (4 freeze-thaw cycles)	from -40°C to +40°C
Coat life, years	25+
Best to use before	12 months from the date of production

## APPLICATION PROCEDURE

- Mix well with hand mixer before application.
- Apply the material to the surface coated with a primer that has previously been cleaned of rust and dirt.
- Can be applied by spraying, with a roller or brush.
- The air temperature during application should not be below +5°C or above +40°C with humidity up to 80%.
- Optimal thickness of the first coat is 0.3-0.4 mm.
- Drying between coatings until hardening (at temp  $\approx 20^{\circ}\text{C}$ ) is 3-4 hours, (at temp  $\approx 5^{\circ}\text{C}$ ) it is more than 12 hours.
- Full drying: 10-15 days.
- The coating is non-toxic, chemically stable. During operations with the coating personal protection equipment is necessary. In case of contact with eyes or skin, rinse with normal and clean water.

## FIRE RESISTANCE

Standard: *ГОСТ Р 53295-2009 с изм. № 1*

Fire resistance, R	45 min		60 min		90 min	
Average steel thickness, mm	3,4	12,3	3,4	12,3	4,1	12,3
Coating thickness, mm	0,90	0,30	1,35	0,40	1,82	0,90
Average coating consumption, kg/m <sup>2</sup>	1,54	0,53	2,42	0,72	3,01	1,61



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