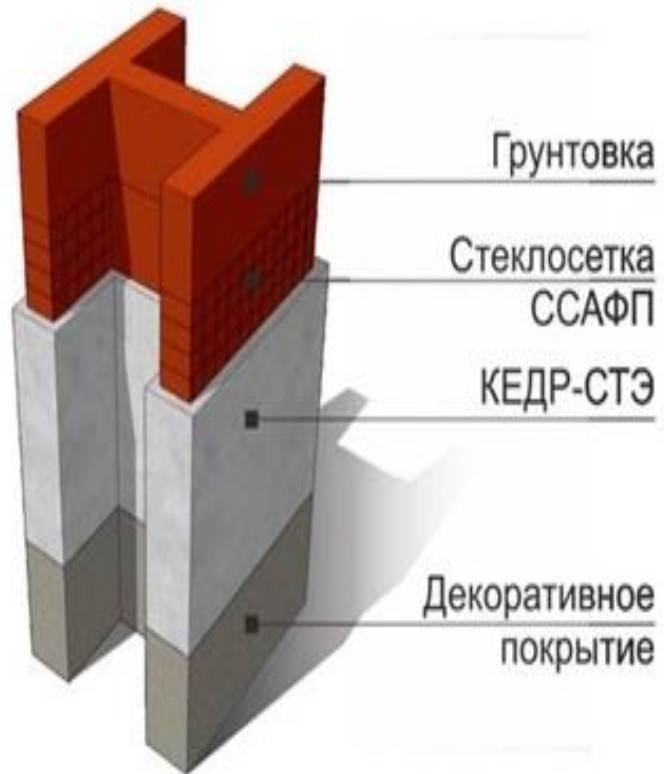


Passive fireproofing coating «KEDR-СТЭ»

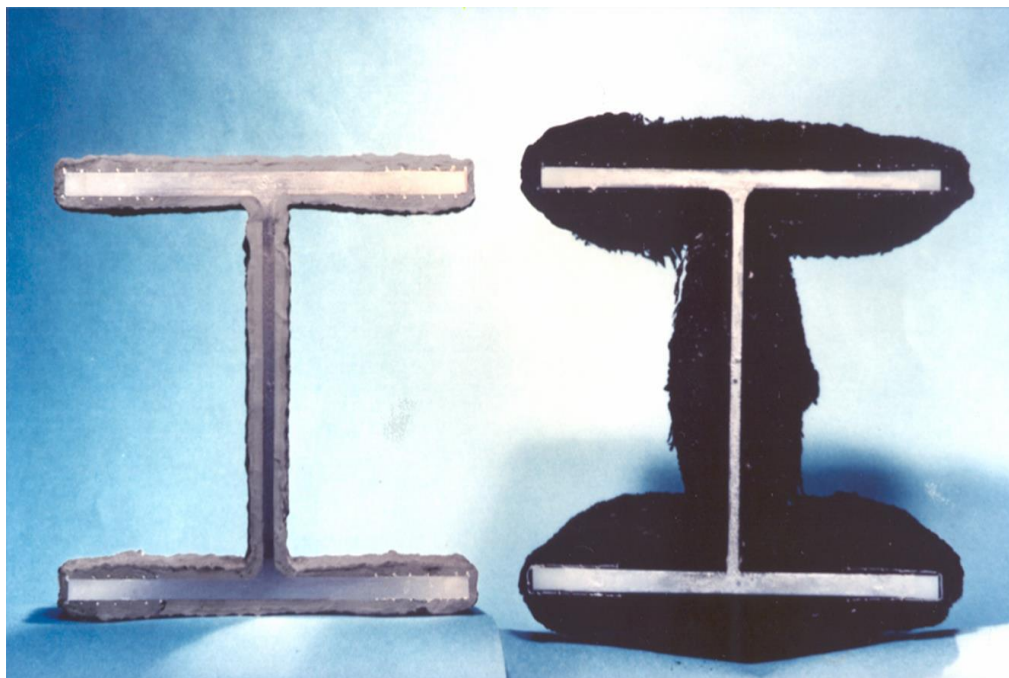


Epoxy-based two-component fireproofing coating for steel structures



- The KEDR-STE is used for passive fire protection of steel constructions, piping and tanks in oil, gas, petrochemical and energy industry, as well as in enterprises of the marine register.
- The coating is applied from the inside and outside of premises in all types of buildings and structures at temperatures from -60°C to $+60^{\circ}\text{C}$ and at relative air humidity up to 100%.

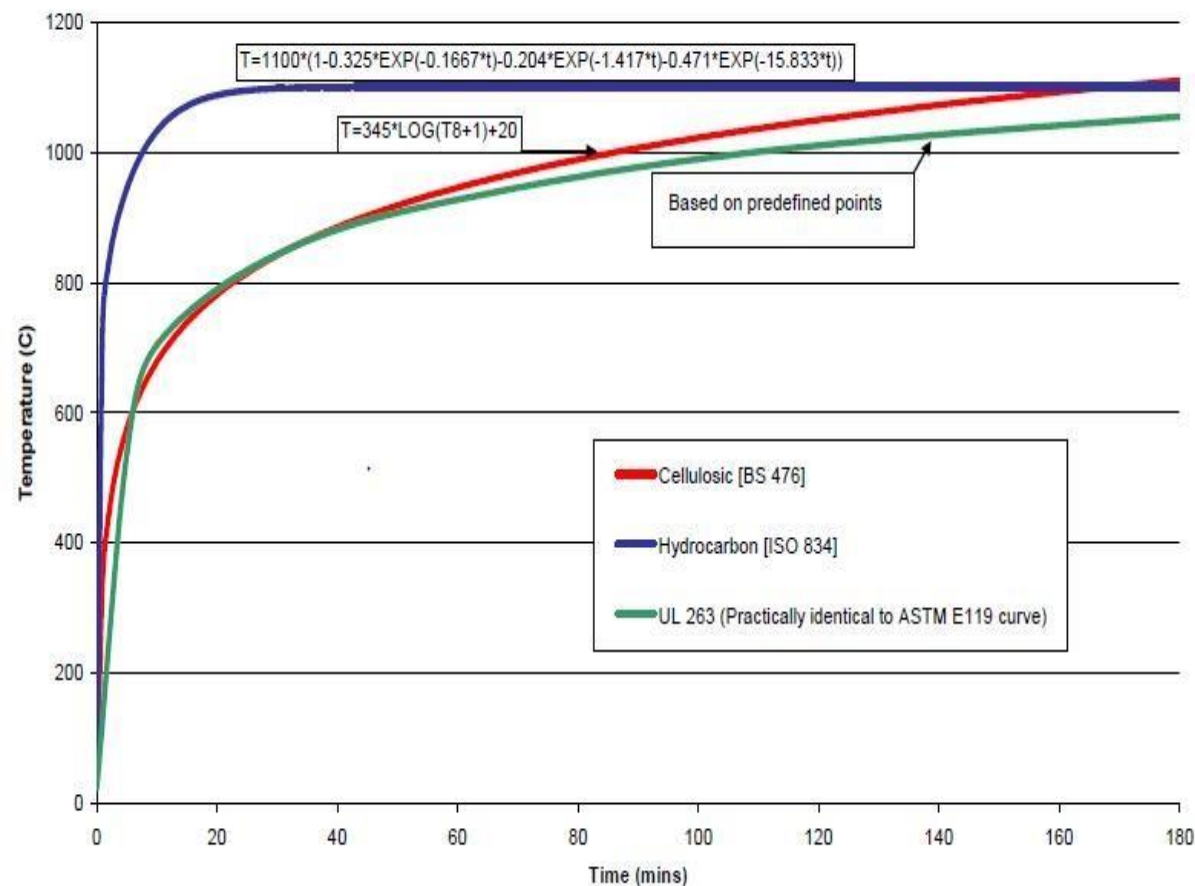
Key advantages



- Corrosion and hydrocarbon fire protection;
- Frost-resistant coating, applicable in the deep North;
- Applicable in seismically active areas (up to 9 degrees according to SP 14.1333.0);
- Hardened coating is environmentally-friendly, does not emit any harmful substances when heated;
- Resistant to all kinds of atmospheric influences and aggressive substances;
- Guaranteed storage life – 24 months;
- Possibility of transporting at extremely low temperatures;
- Self life – at least 30 years.

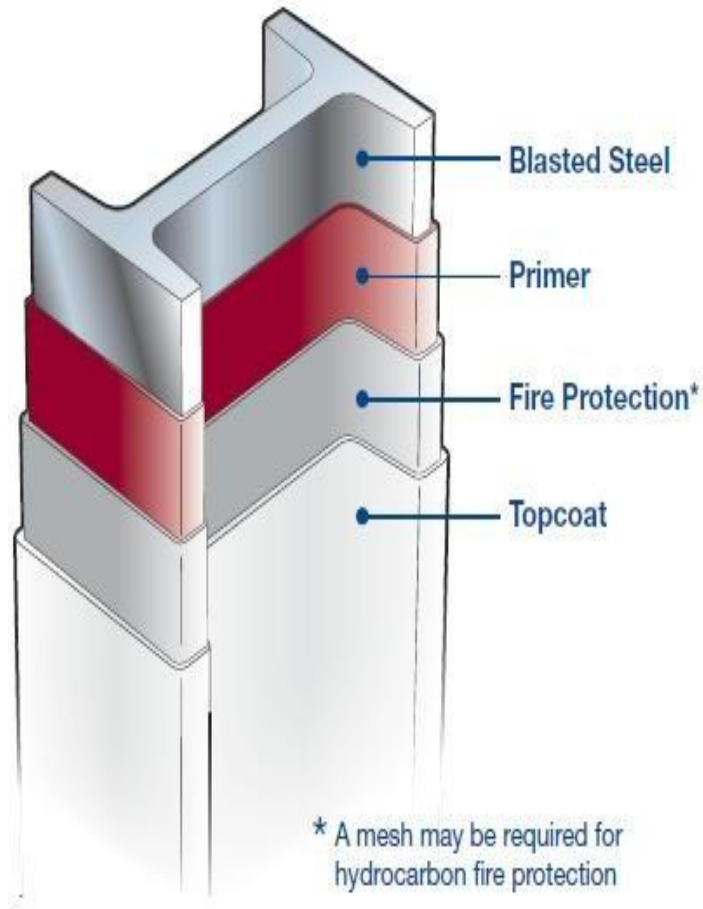
Technical characteristics

Typical Fire Curves



Colour	Grey
Coating density (20°C), g/cm ³	1,30±0,30
Dry residue, %	95-100
Temperature during application, °C	from +5 to +50
Material self life, in years	At least 30
Storage and transport conditions, °C	from -50 to +60
Total content of non-volatile substances, %	≥ 95
Temperature during application, °C	from +5 to +50

Application technology



- Prior to application, mix the components 1 and 2 in the ratio 20:1,4. After good mixing the mixture can be used within 1.5 hours;
- It is applied by airless spraying; application by spatula is also possible;
- The air temperature during application +5°C to +50°C, relative air humidity maximum 85%;
- Average drying time between layers is 4-6 hours, full hardening 2-4 days*;
- Use personal protection equipment. In case of contact with eyes or skin, rinse with running water.

*Under free air ventilation conditions and temperature of +20 °C to +25°C.

Fireproof efficiency

Certified according to GOST P53295 with rev. 1



Fireproof efficiency R, min	45	60	90	90	120	*120
Specified metal thickness, mm	3,4	4,1	3,4	7,4	4,1	8,5
KEDR-STE coating thickness, mm	4,40	4,40	8,10	3,10	10,20	10,8
KEDR-STE theoretical consumption, kg/m ²	5,28	5,28	9,72	3,72	12,24	11,9

* Hydrocarbon fire scenario according to standard STO 17/09 UVR MN-2016.

References



Tolmachevo Airport, Novosibirsk



Pescanka oil exposure field, Chukotka



Shimkent Oil Refinery, Kazakhstan

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