TRIOFLAME™ EP 8800

Fire-retardant epoxy compound

MATERIAL DESCRIPTION:

Two-component fire-retardant epoxy compound.

TYPE AND RECOMMENDED USE:

The fire-retardant compound increases the inherent fire resistance limit of steel structures under the standard temperature regime in accordance with GOST 30247.0 and alternative temperature regimes, including under the hydrocarbon temperature regime, in accordance with GOST R EN 1363-2. Operating temperature range of the resulting coating: from minus 60 to plus 70 °C.

PHYSICAL CHARACTERISTICS:

Color:

From white to beige.

Volume solids:

98 ± 2 %

Coating thickness:

The thickness of the fire-retardant coating layer depends on the required fire resistance limit and temperature regime (see "Table of thicknesses and consumption of TRIOFLAME™ EP 8800"). For more detailed information, contact O3-Coatings.

When applied by airless spraying, the thickness of one wet film layer (WFT) of the coating must not exceed 3000 µm, which corresponds to a dry film thickness (DFT) of 2940 µm.

Drying time and overcoating interval:

Drying time at dry film thickness of TRIOFLAME™ EP 8800 — 2940 µm				
Surface temperature	**5 °C**	**10 °C**	**20 °C**	**30 °C**
Drying to touch	9 h	6 h	3 h	2 h
Drying to application of the next coat	14 h	10 h	5 h	4 h

SURFACE PREPARATION:

Drying time is determined by the actual DFT. The drying times given in this section are for guidance only. When assessing the actual drying time, it is also necessary to take into account the presence of air flows and relative air humidity.

The material is applied to a prepared and dry metal surface with a temperature at least 3 °C above the dew point. The preparation process includes the following operations: elimination of surface defects to grade P2 according to ISO 8501-3; degreasing of the surface (if necessary); surface cleaning to grade Sa 2.5 according to GOST R ISO 8501-1 with a recommended roughness profile of 50–75 µm and desalting of the surface (if necessary); dust removal of the surface to degree 2 with a particle size of not more than class 2 according to ISO 8502-3.

APPLICATION:

Material preparation:

The paint is two-component and is supplied in kits. Before use, both components must be held for at least 24 hours at a temperature not lower than plus 15 and not higher than plus 30 °C. Before application, the base is stirred for 2–3 minutes; the hardener is added to the container with the base and both components are thoroughly mixed for 3–5 minutes. Mixing is carried out in the ratio specified in the quality certificates for the material.

Pot life:	45 minutes at 15 °C; 30 minutes at 20 °C.
Application method:	Airless spraying / Manual application.
Thinner:	For more detailed information, contact O3-Coatings.
Nozzle diameter (recommended):	.019"–.025"
Operating pressure (recommended):	(220–250) bar.
Equipment cleaning:	Solvent 646 (thinner TRIOSOLV 0003 or technical xylene may be used). If spraying is stopped for more than 10 minutes, the equipment must be flushed without fail.
Environmental parameters:	Air temperature not lower than minus 10 °C; relative air humidity not higher than 85 %. (In closed rooms, provide supply-and-exhaust ventilation in the appropriate volume for the period of application and drying.)
STORAGE:	Shelf life for the base — 24 months from the date of manufacture, for the hardener — 12 months from the date of manufacture. It is recommended to store in a dry dark place in sealed factory packaging at a temperature from plus 5 to plus 30 °C, avoiding direct exposure to UV rays and other heat sources.

RECOMMENDED SYSTEMS:

Primer:	TRIOCOR MASTIC 4500, TRIOCOR MASTIC 4500 (MIO) or other primers, in accordance with fire safety certificates.
Thermal insulation material:	TRIOTHERM 3500.
Enamel:	TRIOCOR FINISH 5500 or other topcoat enamels, in accordance with fire safety certificates.
TRANSPORT PACKAGING:	Component A (base) — 20 l euro pail. Component B (hardener) — 3.0 l or 3.2 l euro pail.
HEALTH AND SAFETY:	Refer to the Safety Data Sheet for the material.