Technical Data Sheet

TRIOFLAME AK 7700

Fire protection intumescent coating

DESCRIPTION:

A one-component styrene-acrylic and solvent based fire protection intumescent material.

TYPE AND RECOMMENDED USE:

Thin film fire protection intumescent coating designed to be used on steelwork requiring protection from cellulosic fire; provides passive fire protection of different purpose steelwork of industrial and infrastructure facilities, including food industry; to provide fire resistance on structural steel in a cellulosic fire in accordance with rules and regulations, fire resistance rating and fire danger class of a building. The coating can be used at operating temperatures as low as minus 40 and as high as plus 70 °C.

PHYSICAL CONSTANTS:

Colour:

White.

Volume solids:

72±5 %

Film thicknesses:

Fire protection coating's thickness is required fire resistance rating dependent. (see separate sheet of TRIOFLAME AK 7700 loading requirements). Contact your O3-Coatings representative for additional data.

Recommended wet film thickness (WFT) 2000 microns per one airless spray coat, that is equal to 1440 microns dry film thickness (DFT).

Drying times:

Drying times for 1440 microns DFT

Substrate temperature	0 °C	10 °C	20 °C	30 °C
To touch	1 hour	40 minutes	30 minutes	20 minutes
To recoat	12 hours	8 hours	6 hours	4 hours

Drying time is thickness dependent. These figures are given as a guide only. Factors such as air movement and humidity must also be considered.

SURFACE PREPARATION:

This material should be applied on prior prepared and primed surface. Ensure surfaces to be coated are clean, dry and free from all surface contamination, with a temperature at least 3 °C above the dew point. Typical surface preparation includes cleaning, degreasing (if necessary), salt removing (if necessary) and dust removing from primed surface.

APPLICATION DETAILS:

Material preparation:

A one-component material, stir thoroughly within 3–5 minutes before application.

Application method:

Airless Spray / Manual application.

Thinner:

Not recommended.

Nozzle size:

.019"–.025"

Operation pressure:

(200–215) bar.

Cleaning of tools:	TRIOSOLV 0003 (it is allowed to use other thinners after consultation with LLC «O3-Coatings»).
Application conditions:	Should be applied at temperatures above minus 10 °C; Relative humidity: 85 % maximum; (In confined spaces provide adequate ventilation during application and drying).

RECOMMENDED SYSTEMS:

Primer:	TRIOCOR PRIMER 1100, TRIOCOR MASTIC 4500 or other primers, in accordance with Fire Safety Certificates.
Topcoat:	TRIOCOR FINISH 5500 or other topcoats, in accordance with Fire Safety Certificates.
STORAGE:	24 months from the date of manufacture. It is recommended to store in a dry, dark place in a sealed factory packaging at a temperature of minus 30 to plus 30 °C, avoid direct exposure to precipitation, UV rays and other heat sources.
ADDITIONAL NOTE:	The material is thermoplastic. It is allowed to remain TRIOFLAME AK 7700 un-topcoated when exposed to heated internal areas if there are no intensive moisture condensation and temperature difference above and below 0 °C in C1–C2 environment (as defined in ISO 12944-2).
PACKAGE:	20 kg net weight.
HEALTH AND SAFETY:	Refer to the Safety Data Sheet before use.