

## 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 for up to 120 minutes 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 -40°C and as high as +70°C.
- PHYSICAL CONSTANTS:**
- Colour:** White
- Volume solids:** 72 ± 3 %
- 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).
- Density:** 1.21 ± 0.07 ltr/m<sup>2</sup>
- 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 / Brush / Roller
- Thinner:** Not recommended
- Nozzle size:** .019" - .025"



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# Technical Data Sheet

**Operation pressure:** 200-215 bar

**Cleaning of tools:** TRIOSOLV 0003

**Application conditions:** Should be applied at temperatures above -10°C;  
Relative humidity: 85% maximum;  
(In confined spaces provide adequate ventilation during application and drying).

## RECOMMENDED SYSTEMS:

**Primer:** TRIOCOR PRIMER 1100 or other primers, in accordance with Type Approval under Federal Law №123.

**Topcoat:** TRIOCOR FINISH 5500 or other topcoats, in accordance with Type Approval under Federal Law №123.

**STORAGE:** 2 years from date of manufacture. Store in dry, shaded conditions at temperature between +5°C and +30°C in hermetic original package away from UV rays and other sources of heat.

**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 12944-2:1988).

**PACKAGE:** 25 kg net

**HEALTH AND SAFETY:** Refer to the Safety Data Sheet before use.