



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 -40 °C and as high as +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:	<p style="text-align: center;">Drying times for 1440 microns DFT</p> <table border="1"><thead><tr><th>Substrate temperature</th><th>0 °C</th><th>10 °C</th><th>20 °C</th><th>30 °C</th></tr></thead><tbody><tr><td>To touch</td><td>1 hour</td><td>40 minutes</td><td>30 minutes</td><td>20 minutes</td></tr><tr><td>To recoat</td><td>12 hours</td><td>8 hours</td><td>6 hours</td><td>4 hours</td></tr></tbody></table> <p>Drying time is thickness dependent. These figures are given as a guide only. Factors such as air movement and humidity must also be considered.</p>	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
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												
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.															

Technical Data Sheet



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 -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 Type Approval under Federal Law №123.

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

STORAGE: 24 months 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 weight.

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