Technical Data Sheet

TRIOFLAME AK 7000

Fire protection intumescent coating

DESCRIPTION:

A one-component water based acrylic 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; 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.

PHYSICAL CONSTANTS:

Colour:

White

Volume solids:

70 ± 5 %

Film thicknesses:

Fire protection coating's thickness is required fire resistance rating dependent. (see separate sheet of TRIOFLAME AK 7000 loading requirements). Contact your O3-Coatings representative for additional data.

Recommended wet film thickness (WFT) 1300 microns per one airless spray coat, that is equal to 910 microns dry film thickness (DFT).

Drying times:

Drying times for 910 microns DFT

Substrate temperature	5 °C	10 °C	20 °C	30 °C
To touch hours	8 hours	6 hours	3 hours	1,5 hours
To recoat the next layer	4 day	2 day	14 hours	9 hours
To recoat the finishing layer	6 day	4 day	48 hours	20 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" – .027"

Operation pressure:

200–225 bar

Cleaning of tools:	Potable water
Application conditions:	Should be applied at temperatures above plus 5 °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:	12 months from date of manufacture. Store in dry, shaded conditions at temperature between plus 5 °C and plus 30°C in hermetic original package away from UV rays and other sources of heat.
PACKAGE:	Plastic container (22 kg net)
	Metal container (25 kg net)
	Plastic barrel (50 kg net)
HEALTH AND SAFETY:	Refer to the Safety data Sheet before use.