Technical Data Sheet

TRIOTHERM 3800

Acrylic thermal insulation material

DESCRIPTION: One-component acrylic thermal insulation material.

TYPE AND RECOMMENDED USE: The material is intended for use as part of combined structural flame retardant coating systems operated at temperatures from minus 40 to plus 80 ° C.

PHYSICAL CONSTANTS:

Color:

White, light gray.

Volume solids:

(70±5) %

Film thicknesses: The thickness of the material layer depends on the requirements for thermal insulation. (For more information, contact the company "O3-Coutings"). When applied by airless spraying, the recommended wet film thickness (WFT) in one pass is 2000 microns, which corresponds to a dry film thickness (DFT) of 1320 microns.

Table of wet and dry film thicknesses

Film thickness	WFT, microns	DFT, microns
Minimum	800	528
Maximum	3000	1980

Drying times:

Drying time at dry film thickness TRIOTHERM 3800 - 1320 microns				
Temperature of the painted surface	5°C	10°C	20°C	30°C
Drying before overlap	48 h	32 h	24 h	16 h

The drying times given in this section are of a recommendatory nature. When estimating the actual drying time, it is also necessary to take into account the presence of air flows and relative humidity.

SURFACE PREPARATION:

The material is applied to a pre-prepared and primed surface. The surface to be painted must be dry, clean and uniform with a temperature at least 3 °C above the dew point. A typical surface preparation scheme includes cleaning, degreasing (if necessary), desalting (if necessary) and dedusting the primed surface.

APPLICATION DETAILS:

Material preparation: The material is one-component. Before use, it must be kept for at least 24 hours at a temperature not lower than plus 15 ° C and not higher than plus 25 ° C. Before application, mix the material to a homogeneous consistency throughout the volume: using mechanical means of mixing, at low speeds - from 150 to 300 rpm, for (3-5) minutes. Application should begin immediately after

	mixing.
Application method:	Airless spraying/Manual application.
Thinner:	Dilution is not recommended.
Nozzle size (recommended):	.019“ – .025“
Operating pressure (recommended):	(220-250) bar.
Cleaning of tools:	TRIOSOLV 0003 (it is allowed to use other solvents in agreement with the company "O3-Coutings").
Application conditions:	The air temperature is not lower than minus 10 ° C, not higher than plus 35 ° C The relative humidity of the air is not higher than 85 %; (In closed rooms, provide adequate supply and exhaust ventilation for the period of application and drying).
STORAGE:	Shelf life is 12 months from the date of manufacture. It is recommended to store in a dry, dark place in a sealed factory packaging at a temperature from minus 5 ° C to plus 40 ° C, avoid direct exposure to UV rays and other heat sources.
RECCOMMENDED SYSTEMS:	
Primer:	TRIOCOR PRIMER 1100; TRIOCOR MASTIC 4500 or other primers in accordance with fire safety certificates.
Flame retardant coating:	TRIOFLAME AK 7700
Topcoat:	TRIOCOR FINISH 5500 or other enamels in accordance with fire safety certificates.
PACKAGE:	Containers. Net weight – 13.7 kg.
HEALTH AND SAFETY:	Read the Material Safety Data Sheet.