Technical Data Sheet

TRIOTERM 3000

Acrylic Thermal Insulation Material

MATERIAL DESCRIPTION: One-component water-based acrylic thermal insulation material.

COATING TYPE AND PURPOSE: Weather-resistant, heat-saving coating with increased vapor permeability, used for thermal insulation of facades of residential and non-residential buildings and structures. It can be used as part of combined structural fire protection systems. It is intended for application on surfaces made of concrete, primed metal and brick.

The coating can be operated in the temperature range from -40°C to +70°C.

PHYSICAL CHARACTERISTICS:

Color: White.

Dry residue (by volume): (80±5)%

Density, g/cm^3 0,70±0,10

Coating thickness: The thickness of the material layer depends on the requirements for thermal insulation. The recommended thickness of the resulting coating is from 1 to 2.5 mm.
Recommended wet film thicknesses (WFT) per pass depend on the application method:
- with a spatula - 1 mm, without dilution;
- with a brush with a soft bristle - 0.5 - 1 mm, without dilution;
- with a roller - 0.3 - 0.6 mm, with dilution with water from 25 to 35% of the weight;
- airless spraying - (0.6-1) mm, with dilution with water from 5 to 10% of the weight.

Table of wet and dry film thicknesses of one coating layer

Film thickness	WFT, µm	DFT, µm
Minimum	300	240
Maximum	1000	800

Drying time and overlap interval:

Drying time at TRIOTERM 3000 dry film thickness – (240-800) µm				
Temperature to be painted Surface	10°C	20°C	30°C	40°C
Drying to overlap	24 h	18 h	12 h	10 h

The drying times given in this section are of a recommendatory nature. When estimating the actual drying time, the presence of air currents and relative humidity must also be taken into account. The recommended relative humidity during application is no more than 65%.

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

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APPLICATION:

Preparation of the material:	The material is one-component, water-based. Before application, mix the material to a homogeneous consistency throughout the volume: using mechanical stirring means, at low speeds - from 150 to 300 rpm, for (3-5) minutes.
Application method:	Spatula, brush, roller, airless spraying.
Thinner:	The solvent is water. The amount of dilution depends on the method of application: - with a spatula – without dilution; - with a brush with a soft bristle - without dilution; - roller - with dilution from 25 to 35% by weight; - airless spraying – without dilution or with dilution from 5 to 10% by weight.
Nozzle Diameter (recommended):	For blasting and blasting - .019" - .027". Apply without filters!
Working pressure (recommended):	At least 100 bar.
Equipment flushing:	Water.
Environmental parameters:	It is applied in layers at ambient temperatures from +10°C to +45°C. Relative humidity is not higher than 65%.
STORAGE:	Shelf life is 24 months from the date of manufacture. It is recommended to store in a dry, dark place in an airtight factory package at a temperature of plus 5°C to plus 45°C, avoid direct exposure to UV rays and other heat sources.
RECOMMENDED SYSTEMS:	
Primer:	For concrete and brick surfaces - TRIOPRO PRAYMER 1000, for metal - TRIOKOR PRYAMER 1100; TRIOKOR MASTIC 4500 or others agreed with O3-Coatings LLC.
Top coat:	After drying, it does not require additional protection from mechanical stress and aggressive environmental factors. It is resistant to UV radiation, as well as the properties of high-quality façade paint. To give decorative and additional protective properties to the coating system, it is recommended to use finishing enamels in accordance with the certificates of compliance with the requirements of Federal Law №123 and TR EAEU 043 (for example, TRIOKOR FINISH 5100 or others)
TRANSPORT PACKAGING:	Euro buckets: 2, 5, 10, 20 l

HEALTH AND SAFETY:

Read the Material Safety Data Sheet.