



Technical Specifications

The Technical Specification describes the correct application of the FCOM Sp. z o.o. product covered by the warranty and includes the following product:

- AT Termo

APPLICATION

Protection against frost penetration and surface condensation of water vapor, as well as when solving the problem of thermal bridges and improving health and safety conditions and as a surface finish with antibacterial properties. The product is recommended for insulation and protection of steel elements, plaster, concrete, wood, etc. The application of the product can be performed, m.in. on such substrates as:

- hot and cold water pipelines,
- sanitary fittings, valves,
- ducts, fittings and ducts for ventilation and air conditioning,
- Roofing
- tin garages, containers,
- industrial installations,
- rooms with high air humidity burdened with the risk of mold and fungi, such as swimming pools or saunas, m.in,
- Public facilities such as hospitals, medical clinics and various types of offices, in which the use of antibacterial coatings is recommended. AT Termo prevents the development of m.in. Staphylococcus aureus, E. coli or pneumonia,
- historic buildings where, due to the complex shape of the façade, wool or polystyrene cannot be used,
- partitions made of brick, plaster or concrete, elements made of wood

Our paints are effective, ecological and safe for health, which allows them to be used during outdoor and indoor work.

CONSUMPTION AND PERFORMANCE OF PRODUCTS

1. AT Termo – required consumption 0.7 liters / m² ⁽¹⁾
2. AT Termo – required consumption 1.5 liters / m² ⁽²⁾
3. AT Termo – required consumption 3.5 liters / m² ⁽³⁾

⁽¹⁾ Required consumption to achieve effective radiation reflection (TSR).

⁽²⁾ Minimum wear required for thermal insulation or health and safety protection.

⁽³⁾ Recommended consumption of the product per m² of area.



HOW TO USE

Product preparation

The product should be mixed very thoroughly before use. For mixing, it is recommended to use low-speed agitators with a maximum speed of up to 200 revolutions per minute. Too intense mixing can lead to aeration of the paint and damage the microspheres contained in it.

When working with a spray unit, as well as in conditions with elevated ambient temperatures, it is recommended to dilute the paint with water in the proportions of 3% - 20%.

Surfaces with a temperature above +80°C should be primed with several layers of paint diluted with water in proportions of 20%-40%.

It is recommended to dilute only the amount of product that we use in 3-5 hours.

Substrate preparation

The substrate must be load-bearing, dry, clean, free of free fractions so as to ensure maximum adhesion of the paint to the substrate. Surfaces of newly made cement-lime plasters, cement plasters and concrete should be seasoned min. 4 weeks. For other finishes, follow the manufacturer's guidelines.

Raw substrates (previously unpainted) and previously painted surfaces:

Remove loose parts of the substrate, dirt, greasy stains. Loose/dusty substrates clean or improve their stability by using, for example, soils. Surfaces with a high gloss should be matted. If there is mold or fungi on the substrate, they should be removed. In the case of facades, it is best to wash the whole with water under high pressure, while in the case of steel substrates (if required by the specification) they should be protected with anti-corrosion paint. Unevenness and cracks align with mortar.

As a manufacturer, we recommend each time to perform a test painting, which will allow to assess the adhesion of the coating to the painted substrate (e.g. using the method of cutting the cut) and if the customer has ordered the dyeing of the product, which is standard in white, such earlier painting of the test surface will allow you to assess the appearance and color of the coating.

Application temperature

Paint at air and substrate temperature not lower than +5°C and not higher than +150°C. Avoid rain during painting and for 24 hours after application of paint in optimal conditions (temperature +20°C - +150°C). This time may be extended in conditions of increased air humidity and lower air and ground temperatures.

Our paints are waterborne, they must not be used at sub-zero temperatures.

Transport of our products in winter is possible only in the case of products with increased parameters of resistance to negative temperatures (winter version).

Operating temperature

The permissible operating temperature of the product is from **-140°C. to +220°C.**

Application

Our paints are suitable for use directly in the form in which they were delivered to the recipient and only require thorough mixing with low-speed mixers before use. As a standard, the product is supplied in a liquid version for application with a roller, brush or aggregate, it is possible to make a custom-made product in the form of a dense mass. If the coating will be applied with a paint aggregate, or the substrate temperature will be $>50^{\circ}\text{C}$, the density of the coating should be corrected by adding water, depending on the application from 5-40%.

A single layer of paint should not exceed a thickness of 1mm. In order to avoid streaks and discoloration, paint the surface continuously. Technological breaks plan on the edges of the walls. Ensure sufficient paint from one production batch, especially if the product is dyed with pigments. Paint from different batches mix before use.

Drying and repainting times depend on the layer thickness, temperature and relative humidity of the air. For example, the drying time of a single layer at $+20 \pm 2^{\circ}\text{C}$ is up to 24 hours, while if the substrate temperature is $>50^{\circ}\text{C}$, this time is reduced to 1 hour.

Tools

For the application of paints, it is recommended to use the following tools:

- **Manual**
 - Short-pile nylon rollers for low-roughness surfaces
 - Polyacrylic string rollers with long pile for rough surfaces
 - Brushes
 - Putty (only for thick paint).

- Painting unit Graco Ultra Max II model 795
 - 1/4 inch hose with a length of 15m
 - Graco FTX lub Graco Silver PLUS pistol
 - Nozzle 527
 - The optimal distance of the gun from the wall is about 50cm
 - For longer breaks in painting, turn off the pressure on the aggregate.



When working with an aggregate, all paint filters must be removed from it and from the gun !!!

- Mechanical low-pressure units HVLP
 - for large surfaces, use the Graco RTX 5500 series unit

- for an area of $<50\text{m}^2$ we recommend using Graco HVLP TURBO FORCE II 9.5 PROCONTRACTOR
- pressure vessels with manual or pneumatic stirrer.



Pressure tank 10l or 20l. with pneumatic stirrer with pneumatic spray gun DÜRR EcoGun 246



When working with the aggregate, all paint filters should be removed from it or replaced with a filter with a mesh diameter of at least 1 mm!!!

Maintenance

Maintenance consists of:

- visual assessment of the technical condition of the painted surface,
- repainting the surface on which the defects occurred (welding of pipeline sections, etc.).

The visual assessment is aimed at determining whether there has been no destruction of the coating resulting from the impact of external factors as well as a result of defects hidden in the substrate. Any defects noted must be rectified.

Tool cleaning

Clean tools and dirty surfaces with water.