

## PiroCoat I

### INTUMESCENT PASTE FOR FIRE PROTECTION: STEEL, COPPER AND CAST IRON PIPES WITHOUT INSULATION OR INSULATED WITH PE FOAM

More information about the product can be found at:  
<https://www.pirosystem.pl/pirocoat-i>

| PRODUCT OFFICIAL DOCUMENTS               |                    |
|------------------------------------------|--------------------|
| European Technical Approval:             | ETA-17/1062        |
| Certificate of Constancy of Performance: | 1488-CPR-0726/W    |
| Hygienic certificate:                    | BK/B/0264/01/2019  |
| European Declaration of Performance:     | PIRO/06-2010-09-10 |

| PRODUCT TECHNICAL DATA                                 |                                        |
|--------------------------------------------------------|----------------------------------------|
| Fire resistance class:                                 | up to EI 120                           |
| Reaction to fire:                                      | Bfl-s1; B-s2,d0                        |
| Color:                                                 | graphite gray                          |
| Density:                                               | 1,42 ± 5% g/cm³                        |
| Environment class:                                     | Z1, Z2                                 |
| Storage temperature range:                             | from +5°C to +30°C                     |
| Shelf life:                                            | 10 months                              |
| The theoretical amount to obtain a 1 mm thick coating: | 1,89 kg/m²                             |
| Packaging:                                             | 3 kg, 10 kg bucket<br>310 ml cartridge |



### TECHNICAL DESCRIPTION:

PiroCoat I is a one-component, thick, water-based dispersion of synthetic resin and pigments, graphite in color. The paste reacts - it increases its volume under the influence of temperature above 150 ° C. It is suitable for application with a spatula or brush with stiff bristles. It can be diluted by adding up to 3% water. The coating of PiroCoat I is rough when dry. Use mechanical instruments for thickness measurement, e.g. calipers. The dried coating of PiroCoat I may conduct electricity. I Paste can be packed in various containers, from 310 ml cartridges to 10 kg buckets. In order to change the color, PiroCoat I can be topcoated with decorative water-based paints. Before applying PiroCoat I, protected surfaces should be dusted and degreased

### INTENDED USE:

PiroCoat I fireproof paste is intended for fire insulation and sealing and fire-resistant protection of penetrations through walls and floors of steel, copper and cast iron pipes without insulation or insulated with PE foam (in combination with Piro Multitube PM fireproof tape). It can also be used to protect penetrations through walls and floors, small diameter plastic pipes, stabilized with glass or aluminum. The coating made of this fireproof mass, under the influence of high temperature, intumesces under fire conditions, creating a foamed, fireproof thermal insulation layer on the protected surface. Penetration seals made of PiroCoat I fireproof paste are classified in class EI.

## PASSIVE FIRE PROTECTION

## APPLICATION

### APPLICATION METHODS:

- spatula
- brush
- roller
- airless spray

Clean the surface and degrease if necessary. Cover adjacent surfaces with tape to ensure even application of the compound. Stir the product well before use, the ambient temperature during application should be at least + 5°C. The product is ready to use, does not require dilution. If necessary, allowed to dilute with warm water no more than 2%. Clean tools with water after use. Surface drying time 14 h ± 10% (at the temperature of 20°C and relative air humidity of 65%).

**CAUTION:** The product is not resistant to freezing, it should be transported, stored and applied in temperatures from + 5°C to + 30°C.

After applying, mark the service penetration with the information label attached to the **PiroCoat I**.

## APPLICATION OF PIROCOAT I ON METAL PIPES WITHOUT INSULATION



Fill the space between the pipe and the partition tightly. Use mineral wool with a density of min. 50 kg/m<sup>3</sup> or cement mortar



Using a brush, apply **PiroCoat I** on the partition in such a way that a ring with a width of min. 50 mm and a minimum thickness of 0.6 mm is created



Apply **PiroCoat I** on the pipe so that a ring with a width of min. 500 mm and a thickness of min. 1.2 mm is created



Sealing should be made on both sides of the partition, both in wall and in floor



Mark the penetration with the attached label, mark the fireproof paste **PiroCoat I** on it, enter the date and name

## APPLICATION OF PIROCOAT I ON PLASTIC PIPES WITH DIAMETER UP TO 40 MM



Fill the space between the pipe and the partition with mineral wool with a minimum density of 50 kg/m<sup>3</sup>, leaving 5 mm space from the front of the partition



Apply **PiroCoat I** on the wool with a spatula and create a ring around the pipe, for wall thickness of min. 4 mm, for floor min. 5 mm and a width of min. 15 mm



Sealing should be made on both sides of the partition, both in wall and in floor



Mark the penetration with the attached label, mark the fireproof paste **PiroCoat I** on it, enter the date and name



The same solution can be applied on various types of plastic pipes stabilized with glass, aluminum or without stabilization

More information on applications and instructions can be found at:  
<https://www.pirosystem.pl/pirocoat-i>

### Health and safety recommendations:

The product is intended for use by professional companies in industrial conditions. Work related to the application of the product should be carried out in accordance with the applicable health and safety and environmental protection regulations. Before starting work with the product, read the Product Safety Data Sheet.

### Version 05.2022 replaces 04.2021

The above information is based on our current knowledge and experience. We provide them in good faith. However, due to the variety of methods and conditions of application, they should be verified in specific applications. Therefore, the manufacturer's liability and obligations beyond the conditions set out in the applicable standard are excluded.

# PASSIVE FIRE PROTECTION