
OGNEZA
fire-resistant material factory
ogneza.com

ABOUT US

OGNEZA Group is a leader in the fire-resistant material industry, providing comprehensive approach in the sphere of passive fire safety.
The product range offers technical solutions for the following areas:

- fire protection of metal and wooden structures
- fire protection of utility lines including steel and plastic pipelines, cables and cable passages
- fire protection of ventilation systems
- production of fire-proof doors and fire hose cabinets

MODERN PRODUCTION FACILITY

- 1000 tons of compounds and more than 2 million units of other products per year
- Industrial facility site of more than 5000 sq. m
- Location in St. Petersburg, one of the innovation and industrial centers of Russia
- Efficient integrated transport and warehouse logistics

OWN LABORATORY

- Modern manufacturing equipment
- Own staff of research scientists with academic credentials
- Accumulated scientific background of research and development
- Tracking global market trends in fire protection
- Quality control at all stages of production

REPRESENTED IN ALL OF RUSSIA AND THE CIS COUNTRIES

OGNEZA was founded in 2011 and has since established itself as a reliable manufacturer and supplier.

- We supply our fire-resistant products throughout Russia, from Kaliningrad to Sakhalin.
- We work closely with the Eurasian Economic Union countries – Kazakhstan, Belarus, Armenia.
- We develop relations with our partners in the European Union.
- Countries in the Asia-Pacific Economic Cooperation show interest in our products.

OGNEZA is involved in projects for industrial and infrastructure construction, in the construction of residential and commercial real estate. OGNEZA materials are widely known not only in Russia, but also globally.

ALL RUSSIA PUBLIC ORGANIZATION BUSINESS RUSSIA

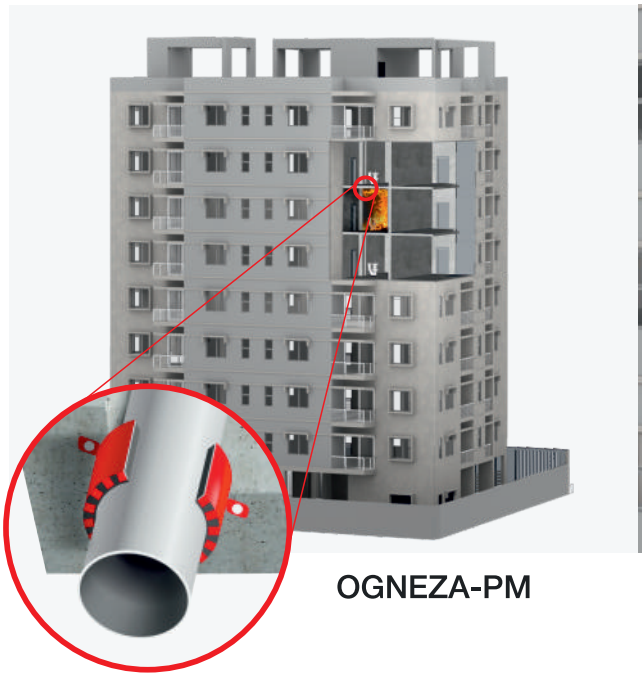
MOSCOW INNOVATION DEVELOPMENT CENTRE

FIRE PROTECTION OF PLASTIC PIPES

OGNEZA-PM self-actuating fire-safety collars are used to prevent fire spreading in places of inner sewage and water supply systems with flammable plastic pipes. Fire resistance rating amounts to a minimum of 180 minutes (EI-180).

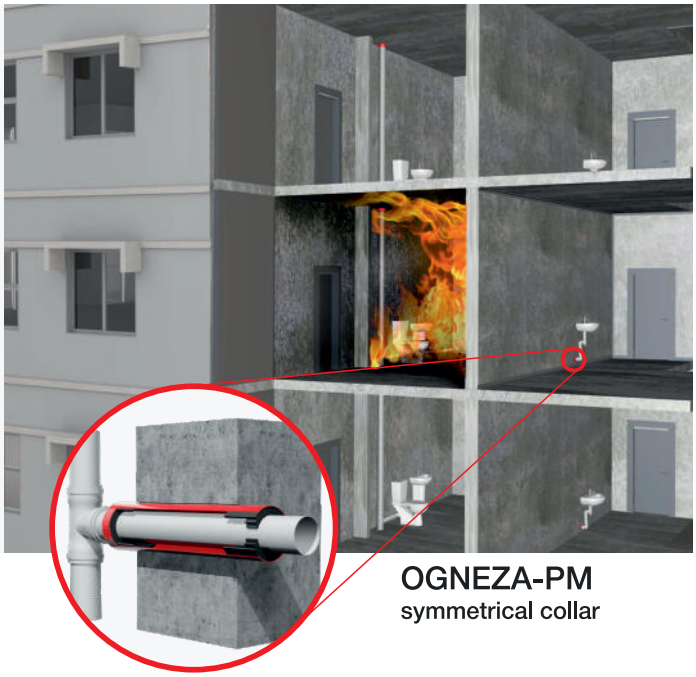
USES

OGNEZA-PM fire-safety collar must be installed in any building with flammable plastic pipes in accordance with the Federal Law of Russia No. 123 "Technical Regulations on Fire Safety Requirements".



OGNEZA-PM

OGNEZA-PM fire-safety collar consists of a metal housing and OGNEZA-TRM thermal expanding material. The size range of the products covers all types of plastic pipes used in water supply and sewage systems. The sleeve's housing is detachable and is equipped with a clamp lock, which allows them to be used on already laid pipelines, ensuring simple assembly and disassembly of the product.



OGNEZA-PM
symmetrical collar

The product has an elongated housing and thermal expanding inserts on both sides. It is installed in hard-to-reach places on all plastic pipelines (123-FZ requirement). Installing one collar allows for fire protection of the wall crossing on both sides. The design of the collar provides for the ability of installation on various pipe diameters.

RESULT

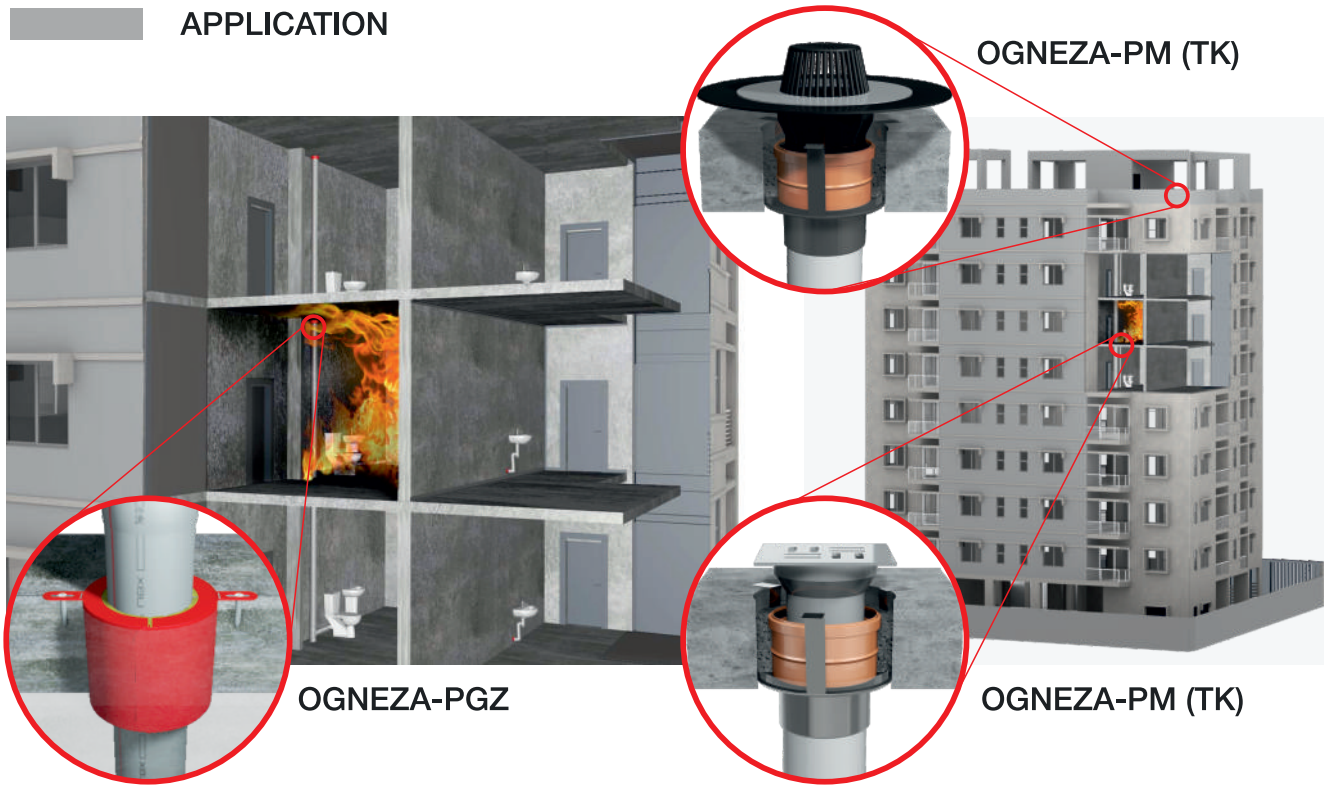
In the event of a fire, the insert of the product expands forming a solid coked cellular material, which fills the hole in the interfloor construction and blocks the fire.

Video:
How a OGNEZA-PM
fire-safety collar works

FIRE PROTECTION OF PLASTIC PIPES

For fire protection of plastic pipes, not only standard fire-safety sleeves are used, but also specialized products designed specifically for installation in places with additional requirements for fire safety and compliance with sanitary standards. Among them are the exclusive sound-insulating fire-safety sleeve OGNEZA-PGZ and the fire-safety collar OGNEZA-PM (TK) for drainage systems and roof drains.

APPLICATION



Fire-safety sleeves OGNEZA-PGZ must be installed on sewer pipes in residential and administrative buildings in accordance with the requirements of the document SP-30.13330.2016.

OGNEZA-PM (TK) collars are used for the installation of drainage systems and roof drains in residential, industrial, administrative and commercial buildings.

DESCRIPTION

OGNEZA-PGZ
This fire-safety sleeve is a unique creation of the Ogneza company and is a complex product for fire protection of plastic pipes, consisting of a detachable metal housing, a thermal expanding material, a soundproofing layer of mineral wool and a fire sealant.

OGNEZA-PM (TK)
This fire-safety collar is designed to protect the building's drainage and sewage systems polymer pipes penetrations from fire. It has a fire resistance rating of EI-90 for drainage systems and EI-180 for roof drains. The product is suitable for all types of floor and roof drains.

RESULT

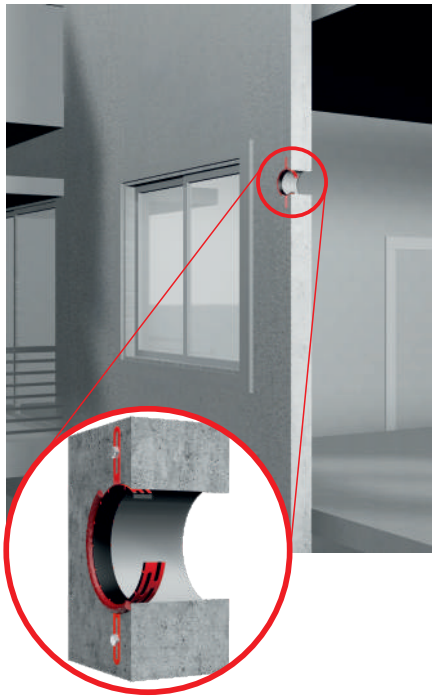
In the event of a fire, the insert of the product expands forming a solid coked cellular material, which fills the hole in the interfloor construction and blocks the fire.

FIRE PROTECTION OF VENTILATION DUCTS

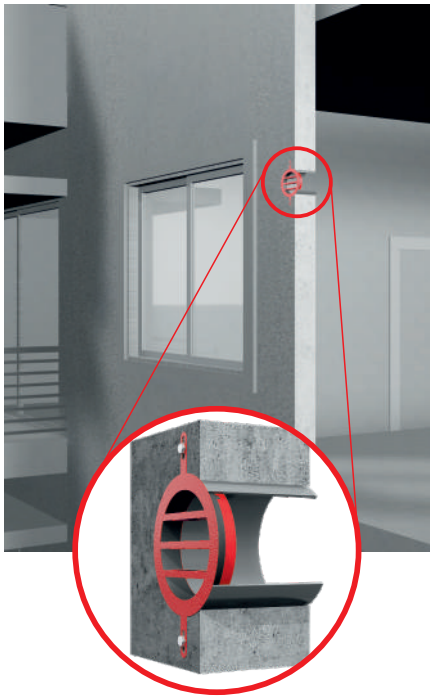
OGNEZA-PM(V) fire-safety collars are a unique creation of the Ogneza company that prevents fire at the intersections of building envelopes by ventilation ducts made of polymer materials.

USES

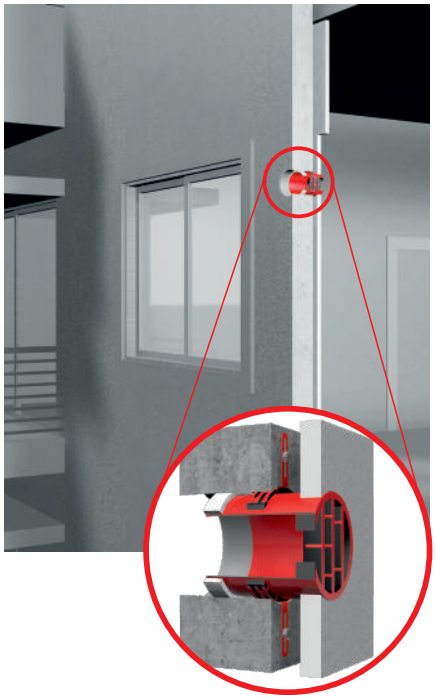
OGNEZA-PM(V) self-actuating ventilation collars of various configurations are designed to block the spread of fire along the external elevation and indoors. They are used in all types of buildings and structures with plastic ventilation ducts.



OGNEZA-PM(V)-P



OGNEZA-PM(V)-L



OGNEZA-PM(V)-T

DESRIPTION

OGNEZA-PM(V) fire-safety collars consist of a metal housing and a thermal expanding insert. Fire resistance rating of the product is EI-180. Depending on the diameter and type of ventilation ducts in the building structures, various types of OGNEZA-PM(V) collars are used:

OGNEZA-PM(V)-P – fire-safety ventilation collar with a perforated housing; used in ventilation ducts with a diameter of no more than 125 mm.

OGNEZA-PM(V)-L – fire-safety ventilation collar with deflection plates; designed for ventilation ducts with an inner diameter of 125 to 225 mm.

OGNEZA-PM(V)-T telescopic collar is designed for ventilation ducts in walls with an additional partition and an air gap between them. The permissible diameter of the duct is from 125 to 225 mm.
The collars in the ducts are additionally caulked with OGNEZA-VG firestop sealant.

RESULT

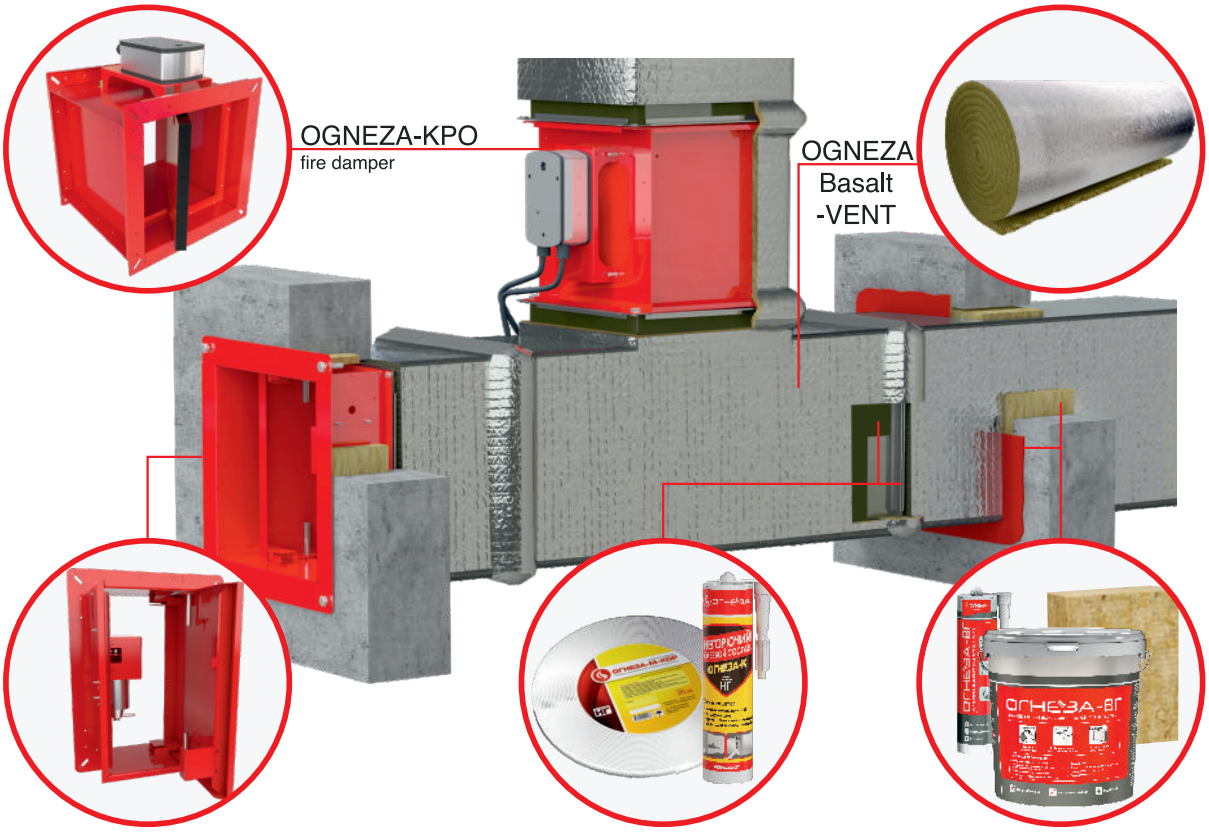
When exposed to fire, the collars insert expands directionally and fills the hole, blocking fire both when entering the facade and at the approaches to the inside of the building. OGNEZA-VG firestop sealant acts as a waterproofing agent and completely seals the edge of the polymer pipe, additionally preventing the spread of fire.

FIRE PROTECTION OF VENTILATION SYSTEMS

For fire protection of air ducts and smoke exhaust systems, Ogneza offers fire dampers, structural fire protection systems for air duct housings, non-flammable seals for flanged ends and a certified fire protection system for ventilation penetrations through the wall.

USES

In the event of a fire, air ducts and ventilation ducts are the most likely channels for the rapid spread of smoke and fire. Particular attention is paid to the fire protection of ventilation systems during the construction and reconstruction of high-rise residential and office buildings, industrial premises with increased fire safety requirements.



DESRIPTION

OGNEZA-KPO fire damper is designed to block the spread of fire and combustion products through air ducts, mines and ventilation systems.

OGNEZA-KPD smoke exhaust damper is installed at the end of the air ducts, wall and floor openings for clearing the emergency smoke ventilation exhaust systems.

Ogneza Basalt-VENT system provides a fire resistance limit of 30 to 180 minutes; it consists of PMBOR basalt material and OGNEZA-K fire-resistant adhesive composition.

OGNEZA-K fire-resistant adhesive composition is intended for locking in the stitching material on the metal surface of air ducts. It is also used for fire protection of flanged duct ends.

OGNEZA-M-KOR non-flammable fireproof seal is used for fire protection of flanged ends of the air duct in combination with OGNEZA-K adhesive. It is also used as a seal in fire protection glazing.

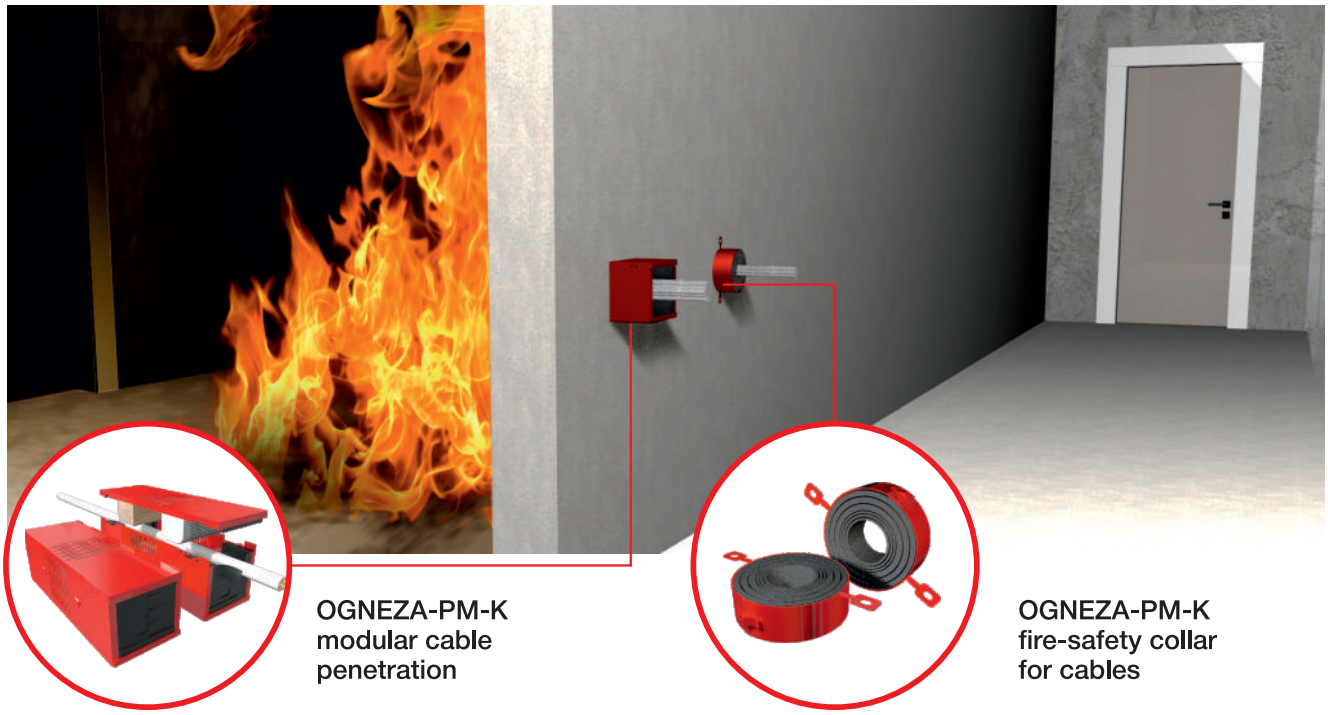
Basalt and silica cords and tapes are designed to seal the flanged ends of the air duct. They are also used for sealing joints and gaps in building structures.

A certified solution to ensure the required limit of fire resistance of ventilation penetrations is fire-resistant sealing with non-combustible mineral wool and sealing with fire-resistant highly elastic OGNEZA-VG sealant.

FIRE PROTECTION OF CABLES

Ogneza produces a range of products for the protection of cables, cable lines and intersection nodes of external envelope with cable lines. Materials and methods of sealing with fire resistance up to 180 minutes include the entire range of cable lines. There are various combinations of OGNEZA materials with different termination options for cable penetrations.

USES



OGNEZA-PM-K modular cable penetration

OGNEZA-PM-K fire-safety collar for cables

OGNEZA products are used to ensure fire resistance of cable passages in any buildings and structures with increased fire safety requirements

DESRIPTION

OGNEZA-PM-K fire-safety collar for cables blocks the spread of fire along cable communications through walls and ceilings with standardized fire resistance limits. Detachable housing design simplifies product installation and disassembly. The fire retardant insert begins to activate on the 15th second of exposure to fire at a temperature of 150 degrees C.

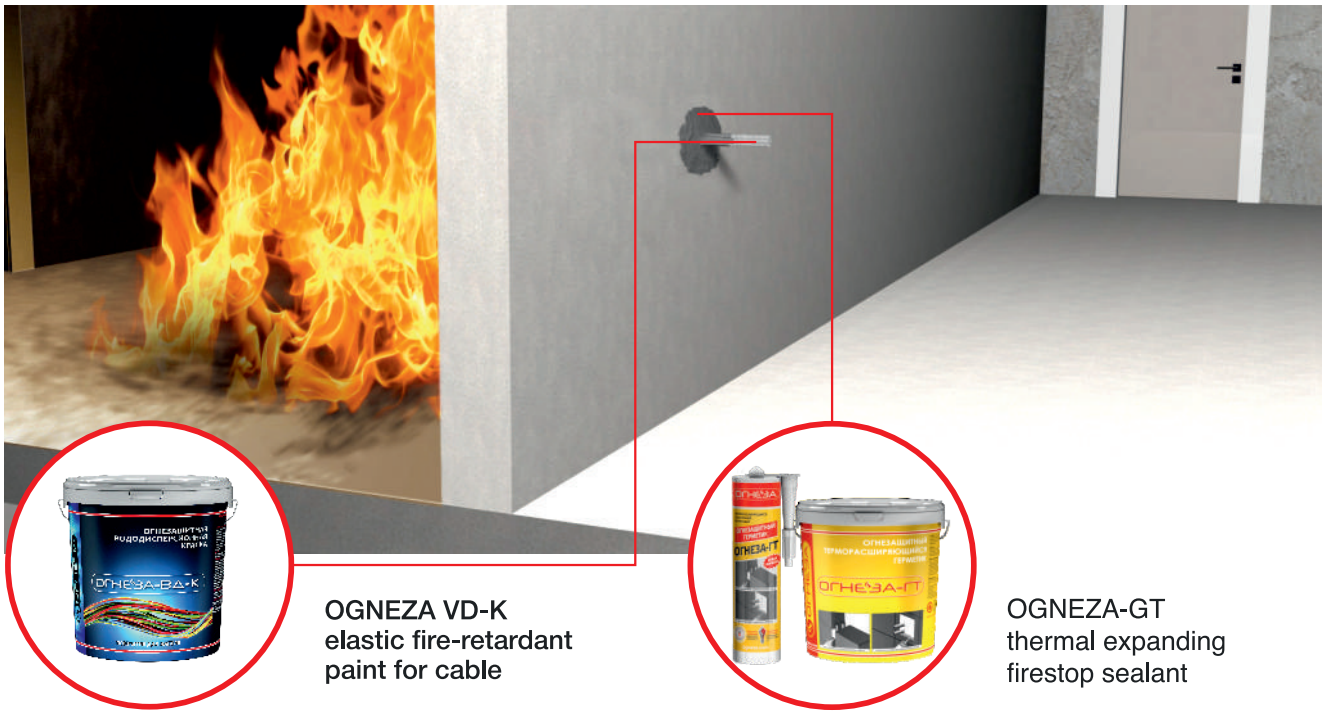
OGNEZA-PM-K modular cable penetration is used to prevent the spread of fire at the intersection of cables and cable systems with walls, ceilings and other building structures. The penetration consists of a split housing and a thermal expanding material. The main advantage of the product is its versatility — you can change cables without dismantling the cable entry.

OGNEZA-TRM is a fire-retardant thermal expanding material that swells when exposed to fire. It is used when sealing cable penetrations in combination with mineral wool material and OGNEZA-GT sealant.

FIRE PROTECTION OF CABLES

The most economical certified method of protecting cable penetrations from fire is OGNEZA-GT firestop sealant and mineral wool. The sealant is tested in accordance with GOST and certified as part of a cable penetration with a thickness of at least 100 mm.

USES



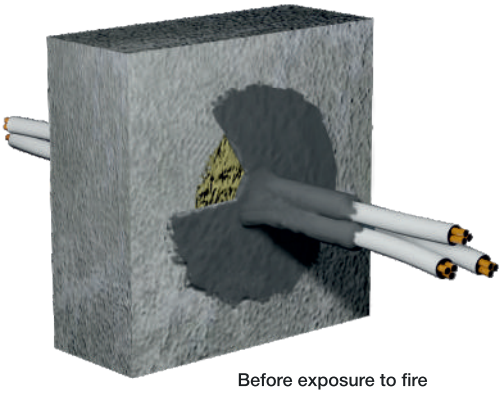
OGNEZA VD-K
elastic fire-retardant paint for cable

OGNEZA-GT
thermal expanding firestop sealant

DESRIPTION

OGNEZA VD-K elastic fire-retardant paint for cables with repelling effect against rodents. The water-based composition ensures the integrity of the flame retardant coating against any deformations and bends of the cable.

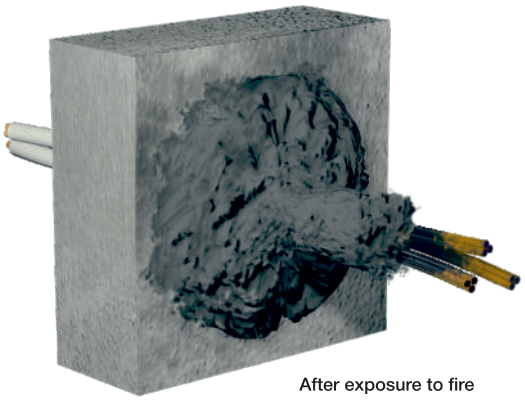
OGNEZA-GT thermal expanding firestop sealant, which has no counterparts in Russia, is one of the most economical materials for sealing cable passages. In combination with mineral wool material, it provides fire resistance of intersection points up to 120 minutes.



Before exposure to fire

RESULT

Under the influence of high temperatures, OGNEZA-GT sealant and the thermal expanding material as part of the cable collar and OGNEZA-PM-K modular cable penetration reliably block the passage with coked cellular material. As a result, fire and smoke do not enter adjacent rooms.



After exposure to fire

3D model of cable penetration

FIRE PROTECTION OF STRUCTURAL/EXPANSION JOINTS

The collapse of building structures under the influence of fire and high temperatures carries a high degree of danger. In addition to the fire resistance of the structures themselves, the fire retardant sealing of structural and expansion joints plays an important role. Experts at the Ogneza laboratory have developed firestop sealants specifically for these purposes.

USES

OGNEZA-GT
thermal expanding
firestop sealant

OGNEZA-VG
highly elastic
firestop sealant

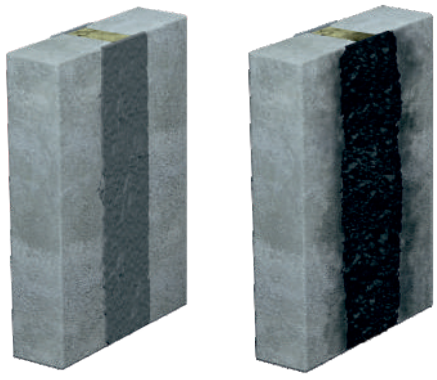
OGNEZA-GT and OGNEZA-VG firestop sealants are used for sealing construction joints in all types of buildings and structures. Due to its high elasticity, OGNEZA-VG sealant is also used for sealing joints on structures subject to strong deformation, for example, subway tunnels.

DESPRIPTION

OGNEZA-GT thermal expanding firestop sealant in combination with mineral wool material ensures the fire resistance of the structural (expansion) joint up to 180 minutes. The sealant is economical, moisture-resistant, dries quickly and has no counterparts in Russia.

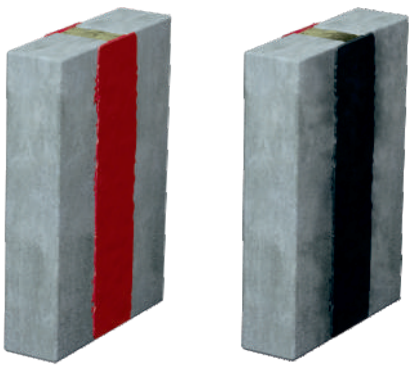
OGNEZA-VG highly elastic firestop sealant in combination with mineral wool material ensures the fire resistance of the structural (expansion) joint is up to 240 minutes. The sealant is distinguished by excellent adhesion to all base materials, water resistance, wear resistance and cost-effectiveness.

RESULT



Expansion joints with
OGNEZA-GT sealant

When exposed to fire, OGNEZA-GT sealant expands and forms a solid foam-coke layer; OGNEZA-VG sealant has a self-extinguishing effect and becomes compacted. Fire-retardant sealing of expansion joints with OGNEZA materials provides a high level of fire resistance to structures.

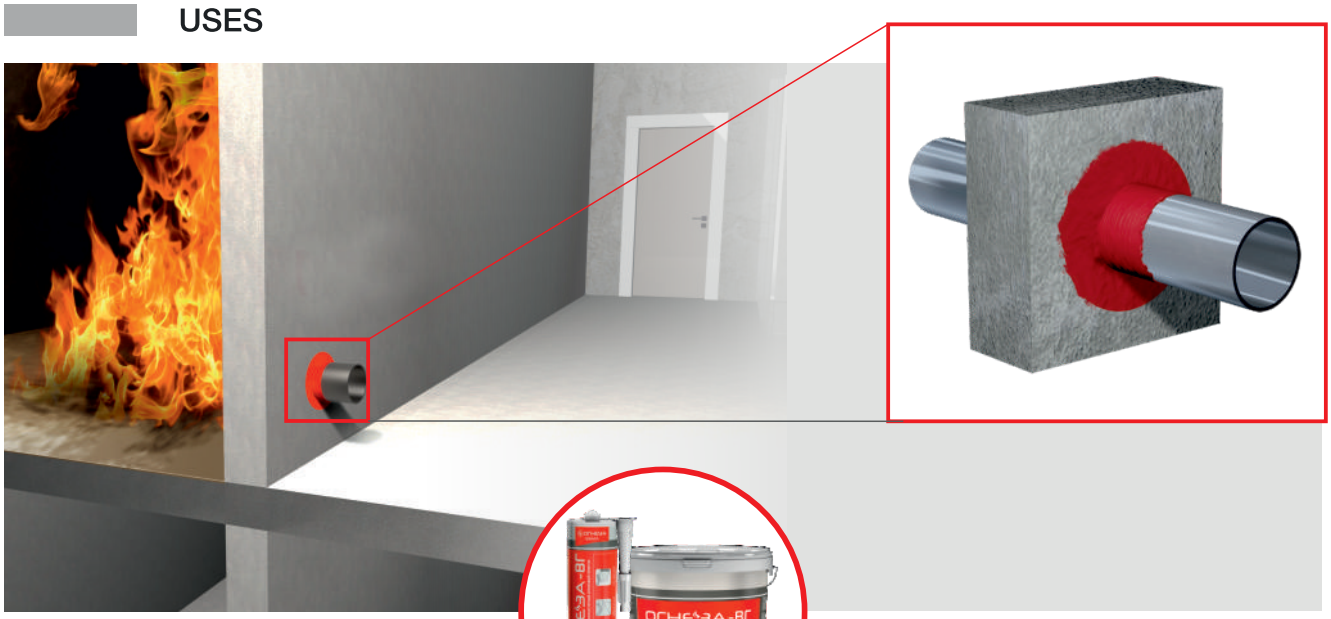


Expansion joints with
OGNEZA-VG sealant

FIRE PROTECTION OF STEEL PIPE PASSAGES

An economical certified solution for fire protection of steel pipe passages through walls and ceilings is a highly elastic waterproof firestop sealant OGNEZA-VG. The acrylic-based composition provides a degree of the node's fire resistance of up to 180 minutes.

USES



OGNEZA-VG
highly elastic
firestop sealant

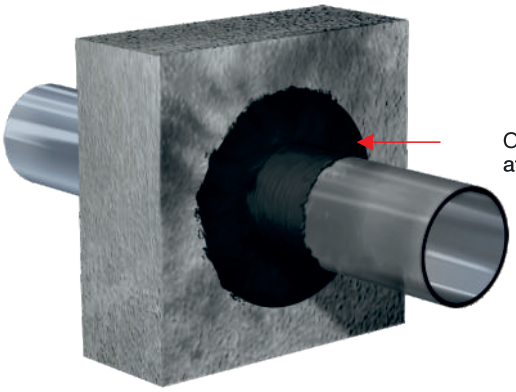
OGNEZA-VG firestop sealant is used in all types of buildings and structures for industrial and civil purposes with increased requirements for fire safety. For fire protection of the intersection node of a steel pipe with a wall, the sealant is certified in combination with mineral wool.

DESCRIPTION

OGNEZA-VG highly elastic firestop sealant has excellent adhesion to various surfaces and increased resistance to deformation loads. High sealing properties, water resistance and cost-effectiveness allow to provide high fire resistance rates with minimal consumption of the material.

RESULT

When exposed to fire, OGNEZA-VG sealant compresses and protects the intersection of the steel pipe with the wall. The material has a self-extinguishing effect, low rates of flammability and smoke emission.



OGNEZA-VG sealant
after exposure to fire

FIRE PROTECTION OF METAL

For fire protection of metal structures, Ogneza produces various types of materials: thin-layer materials with a fire resistance limit of up to 90 minutes (this list includes organic and water based paints); thick-layer (constructive) materials with a fire resistance limit of up to 150 minutes (this type includes a system based on roll basalt material and OGNEZA-KONSTRUKTIV system, which is a two-stage system of heat-insulating and intumescent layers).

USES

OGNEZA-UM
fire retardant paint is
an organic-based composition

OGNEZA-VD-M
fire retardant paint is
a water-based composition

OGNEZA fire retardant paints and structural fire protection systems are used in all types of buildings with metal structures. Special requirements for fire resistance of load-bearing metal structures are imposed in buildings of groups I and II fire rating.

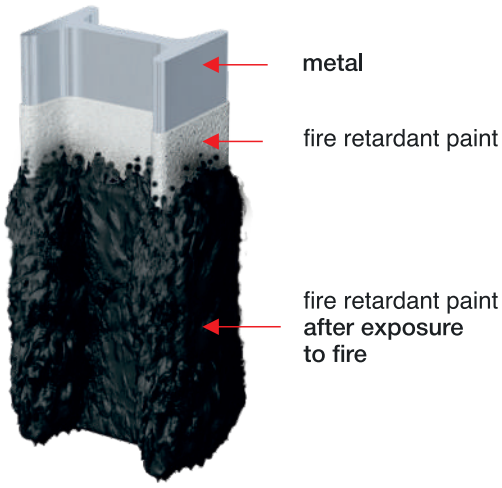
DESCRIPTION

OGNEZA-UM fire retardant paint is an organic-based composition for indoor and outdoor use with a fire resistance limit of up to 90 minutes. The paint is durable and weather-resistant: resistant to UV radiation and temperature extremes.

OGNEZA-VD-M fire retardant paint is a water-based composition without organic solvents. Odorless when applied. Retains the bearing capacity of steel structures for up to 90 minutes

RESULT

Fire retardants for metal have an intumescent effect. When exposed to fire, the paint swells, forming a heat-insulating layer of coked cellular material, and does not allow the loss of the bearing capacity of metal structures.



CONSTRUCTIVE FIRE PROTECTION OF METAL

Integrated fire protection systems for metal structures are designed to increase the fire resistance of metal engineering and building structures used for all types of civil and industrial purposes.

USES

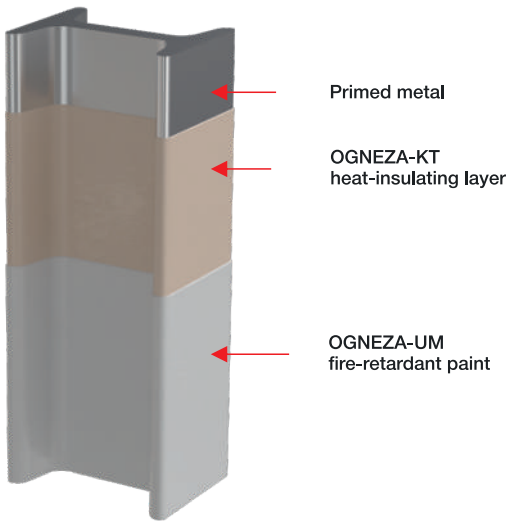
OGNEZA-KONSTRUKTIV

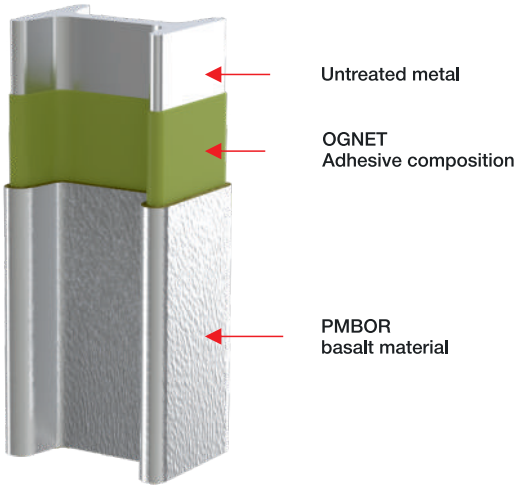
OGNEBASALT-MET

DESCRIPTION

OGNEZA-KONSTRUKTIV is a two-stage fire protection system for metal structures with a fire resistance limit of up to 150 minutes. The first layer is OGNEZA-KT heat-insulating composition, the second layer is OGNEZA-UM fire-retardant paint. The system of constructive fire protection is actively used in buildings of groups I and II fire rating after the ban on the use of basalt for metal fire protection.

OGNEBASALT-MET system consists of OGNET fire-resistant adhesive composition and PMBOR pierced basalt material. Provides a fire resistance limit of 45 to 150 minutes.





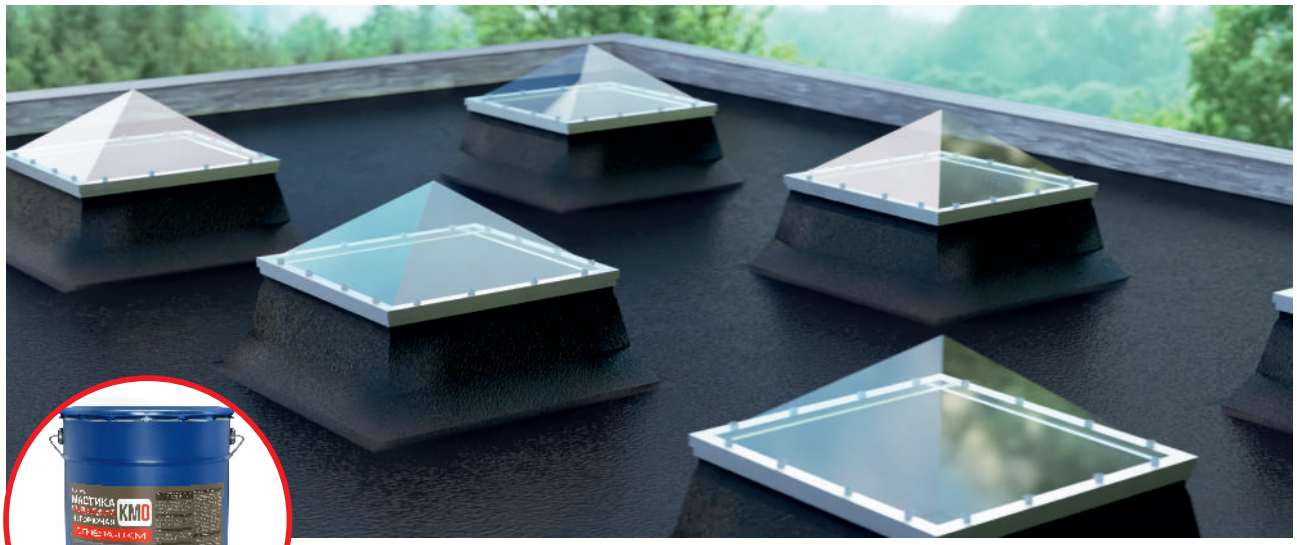
FIRE PROTECTION OF ROOFS

OGNEZA-OKM roofing mastic is a unique non-combustible composition for the formation of fire belts and the treatment of smoke hatches on the roofs of buildings and structures.

USES

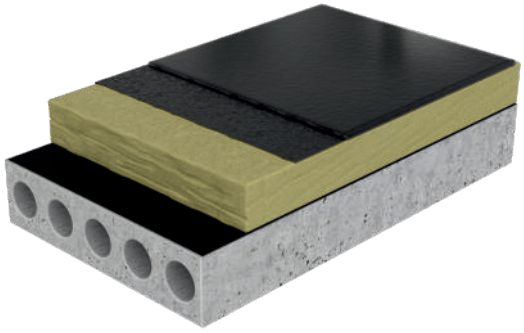
According to the requirements of regulatory documents, fire protection of roofs with non-combustible materials must be performed:

Along the perimeter of smoke ventilation systems and rooflights (SP 7.13130.2013)
When constructing safety zones and passages to escape routes (SP 2.13130.2012)
When installing fire belts (SP 17.13330.2017)



OGNEZA-OKM

DESCRIPTION



OGNEZA-OKM fire-retardant mastic prevents the spread of flame onto the roof of the building. In terms of flammability, it belongs to the NG group in accordance with GOST 30244 (non-combustible) and provides a fire hazard class Km0.

Consumption of OGNEZA-OKM mastic is 1.5 times less than that of standard roofing mastic on the market. Application of the composition is possible at temperatures as low as -20 °C. OGNEZA-OKM roofing mastic is easy to use; its application does not require specialized tools and unique skills.

RESULT

Arrangement of fire belts with OGNEZA-OKM roofing mastic allows preventing the spread of fire along the roof of the building and ensuring the safety of evacuation of people in case of fire.

Fire-retardant test video roofing mastic by fire

Video of fire-retardant application roofing mastic

FIRE PROTECTION OF ESCAPE ROUTES

It is imperative to use non-combustible decorative coatings for painting the walls and ceilings on escape routes in buildings with increased fire safety requirements. OGNEZA KM0 non-flammable paint for mineral surfaces meets all the requirements for coating of escape routes

USES

OGNEZA-KM0 non-flammable paint is used to protect walls and ceilings made of concrete, brick and plastered materials from flames and extreme temperatures. Certified for educational and medical institutions.

OGNEZA KM0
non-flammable paint

OGNEZA-VS
silicate primer

DESCRIPTION

OGNEZA KM0 is a one-component non-flammable water-based paint for mineral surfaces without solvents. The paint is easy to apply; low consumption and high coverage make it possible to protect escape routes as economically as possible. OGNEZA-VS silicate primer is used to reduce paint consumption and improve adhesion.

OGNEZA KM0 paint is available in ready-made colors.
It is also possible to customize the tinting of the composition.

FIRE PROTECTION OF WOOD

For fire protection of materials and structures made of wood Ogneza produces various impregnating compounds, as well as varnishes and paints on an organic and water basis. Materials provide groups I and II fire retardant efficiency or fire hazard class.

USES

OGNEZA-PO-PROF
OGNEZA-PO

OGNEZA-UM-D
fire retardant paint

OGNEZA-LAK
General

Fire retardants for wood are used in private housing and industrial construction, to protect wooden decorative elements in the interior, floors, walls, furniture, roofing systems.

DESCRIPTION

OGNEZA-PO fire-retardant impregnation is an effective composition for treating wooden surfaces and ensuring groups I and II fire retardant efficiency. Available in dry and mortar formulas.

OGNEZA-PO-PROF fire retardant impregnation is the most economical composition for fire protection of large areas of wooden surfaces. When exposed to fire, the coating swells and forms a heat-insulating foam-coke layer. Available in dry and mortar formulas. Tinted red to control processing.

OGNEZA-UM-D fire retardant paint on organic basis is a wear-resistant composition for indoor and outdoor use. Significantly increases the fire resistance of load-bearing structures and makes wood surfaces non-combustible. Provides groups I and II fire retardant efficiency, an indicator of KM1 fire hazard class.

OGNEZA-LAK General Purpose fire-retardant varnish is a polyurethane varnish on organic basis with an indicator of KM1 fire hazard class. The varnish has high wear resistance and is suitable for fire protection of all types of wooden surfaces, including escape routes, open stages and terraces. Available in matte and glossy finish.

FIRE PROTECTION OF WOOD

For fire protection of wooden structures, both individual products and different compositions can be used to ensure the greatest fire-retardant effect.

USES

OGNEZA-VD-D
fire-retardant paint

OGNEZA-LAK-VD
water-based varnish

OGNEZA-LAK-OD
acrylic varnish

DESCRIPTION

OGNEZA-VD-D fire-retardant water-based paint makes wood fire-resistant, provides groups I and II fire-retardant efficiency. Designed for indoor use.

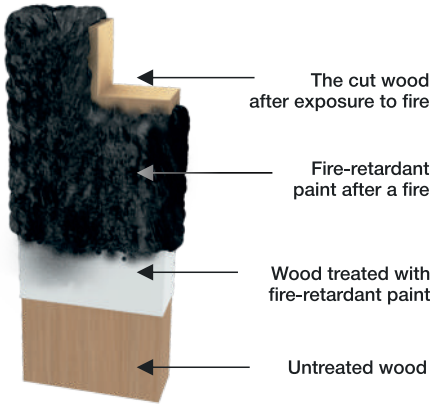
OGNEZA-LAK-OD acrylic fire-retardant varnish increases the fire resistance of wooden structures, preserves and enhances the texture of wood. It has increased abrasion resistance and is completely safe during operation. KM2 fire hazard class indicator. Available in matte and glossy finish.

OGNEZA-LAK-VD fire retardant water-based varnish is used to cover all types of wooden interior elements, furniture, decor. Corresponds to KM1 fire hazard class. The varnish is odorless and dries quickly.

RESULT

Treatment of wooden surfaces with Ogneza's fire retardants is an effective method to prevent human and property losses in case of fires. When exposed to fire, OGNEZA fire retardant paints swell and form a heat-insulating layer of coke foam.

Protected wood retains its load-bearing capacity longer in fire conditions. After exposure to fire, the flame retardant can be reapplied.

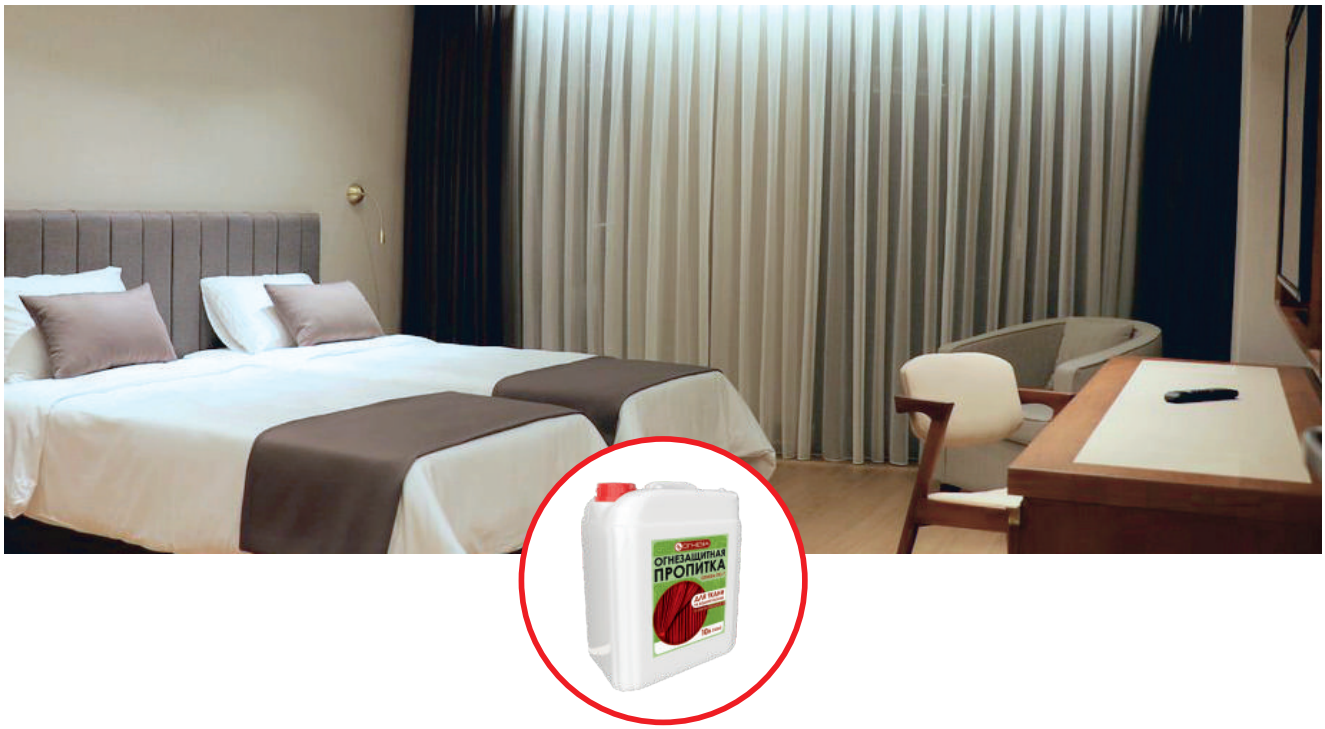


Video testing
of fire-retardant paint

FIRE PROTECTION OF FABRICS

OGNEZA-PO-T fire-retardant impregnating compound reliably protects fabrics and carpets from fire. The fabric treated with fire-retardant impregnation becomes hardly flammable, which allows longer resistance to flame and high temperatures when exposed to fire.

USES



OGNEZA-PO-T
fire-retardant impregnation

OGNEZA-PO-T fire-retardant impregnation is used for processing fabrics made of natural 100% cotton, cotton-poly blend fabrics, as well as 100% synthetic fabric. Treatment is carried out to prevent the spread and emergence of fire. Both new fabrics and materials that have undergone fire-retardant treatment are impregnated with a fire retardant compound.

The impregnation is widely used in hotels, cinemas, educational and cultural institutions, and other buildings with large numbers of people.

DESCRIPTION

OGNEZA-PO-T impregnation contains high-quality fire retardants, which ensure the fire-retardant properties of the composition. OGNEZA-PO-T does not change the properties of the fabric, does not affect its structure, does not leave salt or alkaline streaks. The fire retardant is available in a concentrated and ready-to-use form.

RESULT

The impregnation has a fire retardant effect and prevents the spread of flame in a fire. After processing, the fabric becomes hardly flammable. Provided that the coating is preserved, the service life of the composition is at least 15 years.

Fire retardant
impregnation test video

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