



Co-funded by
the European Union

Catalogue

Passive Fire Protection



ČERVINKA[®]FIRE
GROUP

Protecta® FR Acrylic	
Fire rated mastic	3
Protecta® FR Graphite	
Water based fire classified sealing compound	4
Protecta® FR Foam	
Fire classified konstruktion foam	5
Protecta® FR Board	
Insulation board with fire rated coating	6
Protecta® EX Mortar	
Fire rated expanding mortar	7
Protecta® FR Service Transit	
Plastic tube with heat expanding material within	8
Protecta® FR Collar	
Ready to use, steel shell with a graphite material	9
Protecta® FR Pipe Wrap	
Fire rated Pipe Wrap	10
Protecta® FR Graphite Plate	
Preformed self-adhesive intumescent plate for wall boxes	11
Protecta® Interior Paint FR-1	
Acrylic based intumescent paint	12
Protecta® FR Coating	
Fire rated coating	13
Protecta® Service Coating FR-1	
Fire rated coating for cables in service installations	14
Protecta® FR Putty Cord	
Fire rated non-setting cord	15



Protecta

ČERVINKA®FIRE
GROUP



General description

Protecta® FR Acrylic is the top selling fire rated mastic in our selection of products. The reason is that it has been developed and tested so that it can be used in nearly all fire-stopping situations with very few exceptions. This avoids the need to carry many different mastics with you on the construction site. In addition, this mastic is used in combination with Protecta® FR Board. This, combined with the best fire rating in the market makes the product unique.

Protecta® FR Acrylic is tested with many different types of penetrations in many different constructions. It is intumescent and closes the gap even after plastic pipes burn away.

Main uses

Protecta® FR Acrylic is designed to prevent the spreading of fire and smoke through joints and openings in fire rated walls and floors including openings formed around building service penetrations.

Features

- High end formula, certified worldwide
- Classified for fire sealing all construction types and building service penetrations
- Very high sound insulation
- Low emissions - environmentally and user friendly
- Simple to apply with a smooth surface finish
- Permanently flexible – will accommodate movement up to 12.5%
- No priming necessary for application to most materials
- Suitable for most surfaces, included concrete, masonry, steel, gypsum, glass, plastics and most non-porous surfaces
- Hardens quickly, tack free after 1 hour (the fire performance specification of the joint filler has been derived when the joint filler has been let to cure for a month)
- 18 months storage time (under correct conditions)
- 30 years working life

Ratings

Sound rating:

- 62dB - Single sided seal $\geq 12\text{mm}$ depth.
- 62dB - Double sided seal $\geq 12\text{mm}$ depth.

Fire rating:

- Up to 4 hours depending on application.

Certificates



Technical data

Condition	Ready to use, acrylic based filler
Specific gravity	1,56 – 1,60
Flash point	None
Reaction to fire	Class D-s1, d1
Non-sticky	Max. 75 minutes
Film forming	Max. 25 minutes
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	12,5 % according to ISO 11600
Durability/service	Class Z ₂
BWR 3	Use category IA1, S/W3
Thermal conduct.	0.845 W/mK ($\pm 3\%$) @ 20mm depth
Storage	18 months stored in unopened cartridges. To be stored in temperatures between +10°C and +30°C
Working life	30 years
Service temp.	-20°C to +70°C
Application temp.	+5°C to +30°C
Compatibility	Suitable for use with most materials, but should not be used in direct contact with bituminous materials
Limitations	Should not be used in permanently damp areas or in joints with high movement
Classification	CE-marked - Sealant for fire rated joints and penetrations class EI 240
Standard colours	White
Colour codes	White: RAL 9002 / NCS S1002-Y
Packaging	Box containing 25 cartridges each 310 ml Box containing 12 foil packed each 600 ml

Packaging variants

P005	Cartridge 310 ml
PR0223	Bucket 10 l / 16,4 kg
P022*	Foil 600 ml

* On request

Protecta® FR Graphite

Water based fire classified sealing compound

www.cervinkafiregroup.com

General description

Protecta® FR Graphite is a water based fire classified sealing compound that contains a high concentration of heat expanding graphite material.

This compound may be used in more extreme transits than FR Acrylic, for example cable trays to EI 180 and plastic pipes Ø110mm. Protecta FR Graphite expands when it is subjected to fire and closes openings around penetrations when any combustible or low temperature melting materials have burnt away. Protecta® FR Graphite is designed to fire seal difficult services which traditional fire rated mastics do not achieve such as large plastic pipes.

Main uses

The intended use of Protecta® FR Graphite is to reinstate the fire resistance performance of flexible and rigid wall, and floor constructions where they are penetrated by various steel and plastic pipes, cables with and without cable trays.

Features

- Classified in most constructions for plastic pipes and cables
- Easy to apply
- High sound insulation
- Low emissions - environmentally and user friendly
- Permanently flexible – will accommodate movement up to 12.5%
- No priming necessary for application to most materials; see the installation instructions for further details
- Suitable for most surfaces, included concrete, bricks, Leca, steel, wood, gypsum, glass, PVC and most non-porous surfaces.
- Hardens quickly, tack free after 1 hour
- The fire performance specification of the joint filler has been derived when the joint filler has been allowed to cure for 30 days
- Minimum 12 months' storage time
- 30 years working life

Ratings

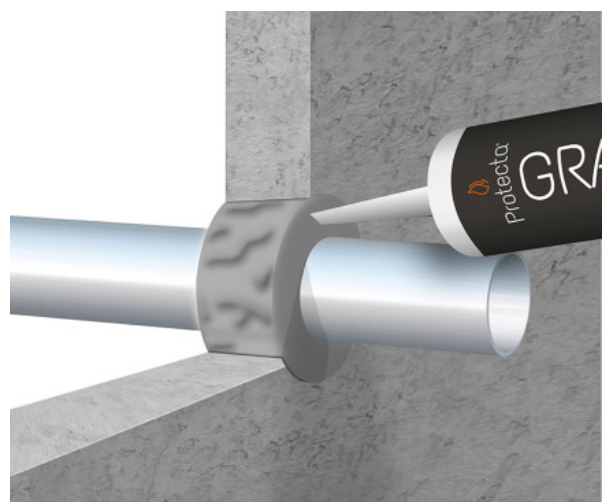
Sound rating:

- Rw 53 dB - Single sided seal \geq 25mm depth.
- Rw > 53 dB - Double sided seal \geq 25mm depth.

Fire rating:

- Up to 4 hours depending on application.

Certificates

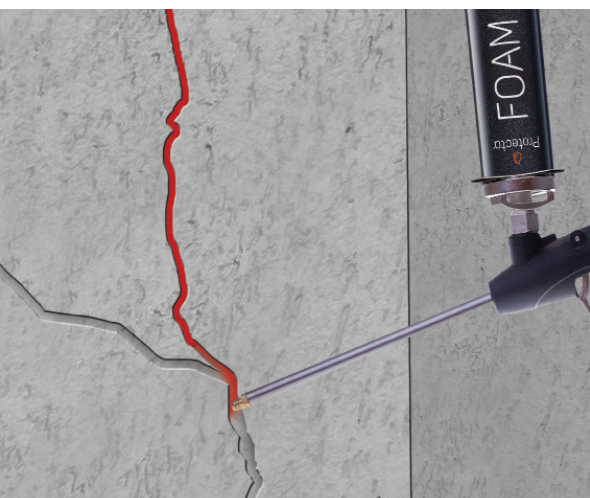


Technical data

Condition	Ready to use, water based graphite filler
Specific gravity	1,50 – 1,60
pH	8,00 – 9,50
Flash point	None
Application Temp.	+4°C to +30°C
Service Temp.	-15°C to +75°C
Non-sticky	60 minutes
Film forming	30 minutes
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	Low to medium, 12,5 %
Storage	At least 12 months when stored in unopened cartridges. To be stored in temperatures between +5°C and +30°C
Compatability	Suitable for use with most materials, but should not be used in direct contact with bituminous materials
Limitations	Should not be used in permanently damp areas or in joints with great movement, joints at floor level or joints below the ground.
Classification	CE marked Sealant for fire rated penetrations class EI 240
Colour	Dark grey (may grow darker during curing)
Packaging	Box containing 25 cartridges each 310 ml

Packaging variants

P010	Cartridge 310 ml
------	------------------



General description

Protecta® FR Foam is a fire rated construction foam with good acoustic properties. Designed to maintain the fire resistance in walls and floors by filling linear gaps.

Protecta® FR Foam is supplied as a single component polyurethane foam which cures by moisture absorption. It has excellent adhesion to most materials used in construction with excellent durability during service once cured. The foam comfortably meets the fire resistance requirement of 240 minutes at a depth of 200 mm, and is an ideal and cost effective option for sealing between concrete, Leca and similar elements where a quality surface finish is not required.

Main uses

Protecta® FR Foam is designed to reinstate the fire resistance performance of gaps and joints in and between rigid wall constructions, gaps and joints in and between rigid floor constructions.

Features

The foam satisfies the fire resistance requirement of 240 minutes at a depth of 20 cm. The foam also has particularly good sound proofing properties.

Applications

- Sealing for window fittings
- Sealing for door fittings
- Filling free spaces, cracks, gaps and pipe penetrations
- Sealing roof, wall and floor joints.
- Thermal insulation
- Acoustic insulation

Ratings

Sound rating:

- 61dB RW- Single sided seal ≥ 50 mm depth & ≤ 30 mm width

Fire rating:

- up to 4 hours depending on application

Certificates



Technical data

Colour	Grey
Parameter Value	(+23°C/50 % RH) 1)
Capacity (free foaming) [l] (RB024)	35 - 42
Capacity in gap [l] (RB024) 2)	24 - 32
Secondary increase in volume (post-expansion) (TM1010-2012**)	90 - 120
Tack-free time [min] (TM 1014-2013**)	≤ 10
Cutting time [min] (TM 1005-2013**) 3)	≤ 40
Full cure time [h] (RB024)	24
Heat conductivity coefficient (λ) [W/m*K] (RB024)	0,036
Dimensional stability [%] (TM 1004-2013**)	≤ 3
Flammability class (DIN 4102)	B1 4)
Flammability class (EN 13501-1+A1:2010) test method EN ISO 11925-2, EN 13823	Bs1d0
Fire resistance (EN 13501-2+A1:2008) test method EN 1366-4:2008	EI240 5)

1. All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam).
2. The value given for a gap with dimensions 30*100*35 (width *length *depth [mm]).
3. The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h. The result given for a foam strip of 3 cm diameter.
4. For linear gaps with maximum width 30 mm and maximum depth 80 mm between monolithic, mineral or metal construction materials.
5. For gaps with width 10 mm and depth 200 and 240mm, or with width 20 mm and depth 240mm in construction made of aerated concrete blocks (available on request).

Packaging variants

P166	Gun foam 750 ml
P180*	Tubular box 750 ml

* On request

Protecta® FR Board

Insulation board with fire rated coating

www.cervinkafiregroup.com

General description

Protecta® FR Board has been designed to maintain the fire resistance of separating walls/floors where they are breached by single or multiple building services. It consists of a rigid stone wool core, sealed with Protecta® FR Coating on 1 or both faces.

Main uses

Protecta® FR Board is designed to reinstate the fire resistance performance of flexible wall, rigid wall and floor constructions where they are penetrated by various cables, metallic pipes, composite pipes and plastic pipes.

Features

- Classified for all construction types with or without building service penetrations
- Simple and very quick to install
- Easy to retrofit additional building services after installation
- Permanently flexible - will accommodate to movements during the fire and to movements of the construction it has been installed to
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastic and most non-porous surfaces
- May be used in unlimited lengths in walls with heights up to 1200 mm and in floors with widths up to 800 mm
- May be installed in gypsum walls with or without framing around the opening
- Halogen free with added fungicides
- Once fully cured, the board resists UV, humidity and frost
- Protecta® FR Board can be supplied with a smooth surface
- Precautions are required to be taken to prevent a person stepping onto a blank horizontal penetration seal

Ratings

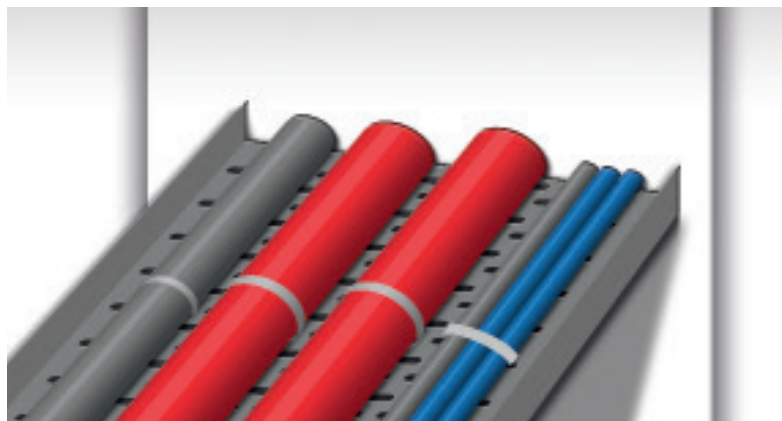
Sound rating:

- 55dB - Single 50mm Protecta FR Board 2-S.
- 55dB - All other configurations.

Fire rating:

- Up to 4 hours depending on application.

Certificates



Technical data

Condition	Ready to use, pre-coated boards
Density	Board: 160 kg/m ³ (150 – 170 kg/m ³) Coating: 1,3 – 1,4 kg/ltr
Durability	Y1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y ₂ , Z ₁ and Z ₂
Flash point	None
Non-sticky	Max. 75 minutes (sealant)
Film forming	Max. 25 minutes (sealant)
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	Medium, 12,5 %
Thermal conduct.	0,038 W/mK
Storage	May be stored for a long period of time. To be stored in temperatures between +5°C and +30°C
Compatibility	Suitable for use with most materials, but should not be used in direct contact with bituminous materials
Limitations	If the boards are to be used in permanently humid areas Protecta® FR Coating should be applied over the sealant
Temperature range	-30°C to +80°C (when hardened)
Installation temp	+5°C to +50°C
Colour	White surface, green core FR Acrylic: NCS 1202 – Y26R, RAL 9002
Packaging	FR Board 1-S 50 x 600 x 1200 mm: 80 pcs per pallet FR Board 2-S 60 x 600 x 1200 mm: 72 pcs per pallet

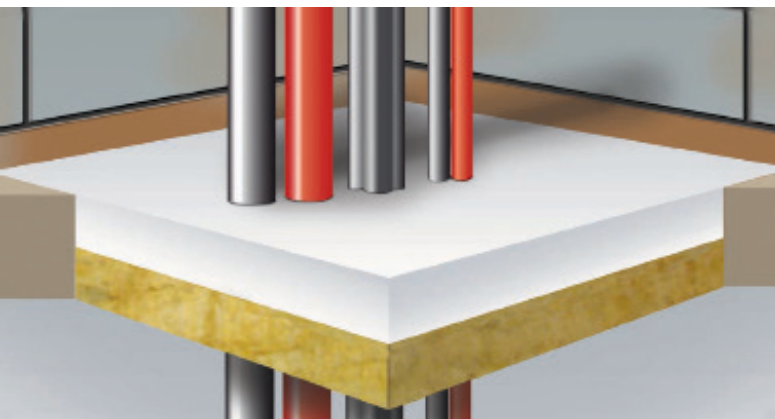
Packaging variants

A0008	60 x 600 x 1200 mm: both sides painted
A007	50 x 600 x 1200 mm: one side painted
A006	50 x 600 x 1200 mm: both sides painted

Protecta® EX Mortar

Fire rated expanding mortar

www.cervinkafiregroup.com



General description

Protecta® EX Mortar is a dry white powder consisting of inorganic compounds and perlite. When mixed with water the compounds form a highly thermal insulating fire seal to prevent the spreading of fire and smoke through openings in fire rated walls and floors, including openings formed to accommodate to building service penetrations.

Main uses

The intended use of Protecta® EX Mortar is to reinstate the fire resistance performance of flexible wall, rigid wall and floor constructions where they are penetrated by various cables and metallic pipes.

Features

- Classified in walls and floors of concrete, brick, gypsum etc
- Suitable for cables, bundled cables, cable racks, cable trays, steel, copper, alupex and plastic pipes and air ventilation ducts
- Simple to apply leaving a very smooth finish
- High degree of mechanical resistance; the seal is load bearing without reinforcement
- No priming necessary prior to application in most building material substrates however metal services in contact with the seal must be corrosion protected
- Suitable for most surfaces, included concrete, bricks, Leca, steel, plastic etc, but not suitable to fitting of doors or in service openings that involve movement
- The product is certified for use in gypsum walls but it is recommended to use Protecta® FR Boards for these applications
- Fully set within 1 hour
- The fire performance specification of the compound has been derived when the seal has been let to cure for 1 month.
- Nearly unlimited storage time

Ratings

Sound rating:

- Rw 64 dB - Single sided cast ≥ 50 mm thick as linear seal.
- Rw 64 dB - Double sided cast ≥ 25 mm thick as linear seal.
- Rw 48 dB - Single sided cast ≥ 50 mm thick as large seal.
- Rw 48 dB - Double sided cast ≥ 25 mm thick as large seal.

Fire rating:

- Up to 4 hours depending on application.

Certificates



Technical data

Condition	Powder ready for mixing with water
Product consumption at 2:1 mix	Approx. 3,42 bags per m ² @ 50mm depth Approx. 6,83 bags per m ² @ 100 mm depth
Dry density	About 900 kg/m ³ after full cure
Flash point	None.
Reaction to fire	Class A1 according to EN 13501-1
Hardened	Less than 1 hour depending on the local climate
Totally hardened	Up to 30 days depending on thickness and temp
Flexibility	None
Durability/service	Class Z ₂
Working life	30 years
Thermal conduct	0,051 W/mK
Storage	No particular limit for unopened bags in dry places with storage temperatures between +5°C and +30°C
Compatibility	Suitable for use with most materials, but should not be used in direct contact with metals that may corrode
Limitations	Should not be used in permanently damp areas or in moving joints
Classification	CE-marked – Fire seal for fire rated openings and penetrations class EI 240
Colour	Off-white
Packaging	Bucket of 20 litres Bags of 10 litres Pails: 63 on the pallet Bags: 72 on the pallet

Packaging variants

P070	Bag 20 l
P139*	Bucket 10 l

* On request

Protecta® FR Service Transit

Plastic tube with heat expanding material within

www.cervinkafiregroup.com

General description

Protecta® FR Service Transit consists of a circular high temperature plastic tube containing a graphite based intumescent lining material which expands upon heating to seal spaces or voids around cables and pipes, thus preventing the passage of flames, smoke and gases. The Service Transit is available in three different lengths, 150mm, 250mm and 400mm and the selection of which to use depends on the thickness of the supporting construction and the required fireclassification. Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes plus all kinds of cables up to a certain diameter.

Main uses

Designed to maintain the fire resistance of walls and floors when these are breached by continuous cables and plastic pipes.

Features

- Safe, easy and quick way to make a fire-stopping service penetration
- Ideal for installations where it is likely that services will be inserted or replaced in the future
- Ideal for installations in tight spaces where it will be difficult to install a normal fire seal at a later stage in the building construction
- A plug in the middle prevents cold smoke from getting through
- New patented fast expanding graphite material
- For cables, plastic pipes and cables inside plastic pipes (conduits)
- Classified for fire sealing all types of constructions; drywalls, masonry or concrete walls and concrete floors
- Can be fitted several ways; cast in concrete, friction fitted in concrete, masonry or gypsum, or inserted in larger apertures with Protecta® FR Acrylic, FR Board and EX Mortar
- Very high fire classification up to 240 minutes for both integrity and insulation
- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes plus all kinds of cables up to a certain diameter
- No emissions - environmentally and user friendly
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

Ratings

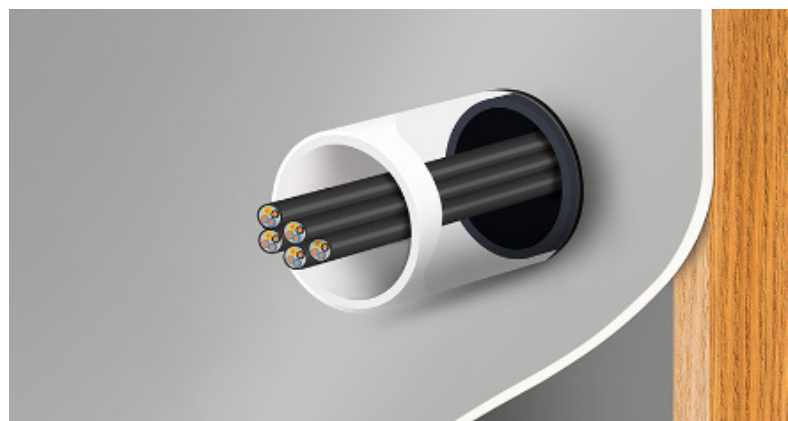
Sound rating:

- 42dB RW - Service Transit's in all sizes.

Fire rating:

- 240 minutes for both integrity and insulation.

Certificates



Technical data

Condition	Ready to use, pre-coated boards
Density	Tube: 160 kg/m ³ (150 – 170 kg/m ³) Coating: 1,3 – 1,4 kg/ltr
Durability	Y1 - Intended for use at temperatures below 0°C with exposure to UV and humidity but no exposure to rain. Includes lower classes Y ₂ , Z ₁ and Z ₂ .
Flash point	None
Non-sticky	Max. 75 minutes (sealant)
Film forming	Max. 25 minutes (sealant)
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	Medium, 12,5 %
Thermal conduct.	0,038 W/mK
Storage	May be stored for a long period of time. To be stored in temperatures between +5°C and +30°C
Compatibility	Suitable in direct contact with most materials, but should not be used in direct contact with bituminous materials
Limitations	If the boards are to be used in permanently humid areas Protecta® FR Coating should be applied over the sealant
Temperature range	-30°C to +80°C (when hardened)
Installation temp	+5°C to +50°C
Colour	White surface, green core FR Acrylic: NCS 1202 – Y26R, RAL 9002

Packaging variants

P249	Ø 40 x 215 mm
P254	Ø 63 x 250 mm
P258	Ø 63 x 400 mm
P259	Ø 90 x 400 mm
P256	Ø 110 x 250 mm
P260	Ø 110 x 400 mm

General description

Protecta® FR Collars consist of a two part, coated, circular steel shell that fits around plastic pipes (PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC); plastic pipe bundles – with or without cables, and bundles of cables. The collars have a secure and simple locking device.

The steel shell contains a graphite based material that reacts to heat, expanding in the event of a fire to fill the opening left by the melting plastic of the through penetration. It can be fitted on the outside of a wall or floor, even in single sided applications.

Main uses

The intended use of Protecta® FR Collar is to reinstate the fire resistance performance of flexible and rigid wall, and floor constructions where they are penetrated by various services.

Features

- High end fast expanding patented graphite material, certified Worldwide
- Classified for fire sealing of all construction types and many different building service penetrations including plastic pipes, composite pipes, metal pipes and cable bundles
- Approved plastic pipe sizes range from smallest pipes available to Ø 400mm, each with a wide range of pipe wall thicknesses
- Collars are available in two different heights for different fire classifications to maximise cost efficiency
- Smaller pipes can be fitted within larger collars with the benefit of accommodating pipes that are at an angle, or if the opening around the pipe is too large
- Fire classification up to 240 minutes for both integrity and insulation
- Tested and certified for U/U pipe end applications
- Very high sound insulation
- Causes no deleterious effects on cPVC pipes like BlazeMaster, supported by mechanical testing evidence
- No emissions - environmentally and user friendly
- Simple to install using widely available standard fixings
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

Ratings

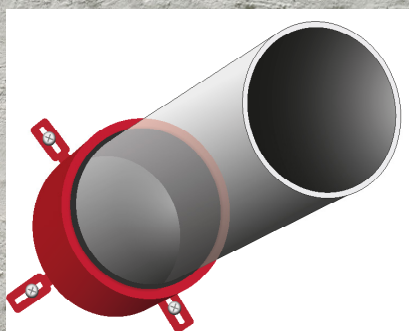
Sound rating:

- RW 58 dB - Collars installed as described in walls.

Fire rating:

- 240 minutes for both integrity and insulation.

Certificates



Technical data

Condition	Ready for use, steel shell with a graphite material
Shell	Powder coated 1 mm steel
Conditioning procedure	EN 13238:2010
Expansion ratio	17:1
Expansion pressure	65,4 N
Colour	White/red shell with anthracite inlay
Graphite weight	1,4 kg/m ² per mm thickness
Graphite density	1409 kg/m ³
Normal expansion time	Less than 2 minutes
Minimum expansion temperature	+105°C
Storage	May be stored for a long period of time. To be stored in temperatures between +5°C and +30°C
Life	Under normal conditions; 30 years +

Packaging variants

P269-30	Ø 32 mm / 30 mm	P038	Ø 82 mm / 50 mm
P269	Ø 32 mm / 50 mm	P273-30	Ø 90 mm / 30 mm
P270-30	Ø 40 mm / 30 mm	P273	Ø 90 mm / 50 mm
P270	Ø 40 mm / 50 mm	P039-30	Ø 110 mm / 30 mm
P037-30	Ø 55 mm / 30 mm	P039	Ø 110 mm / 50 mm
P037	Ø 55 mm / 50 mm	P040	Ø 125 mm / 60 mm
P271-30	Ø 63 mm / 30 mm	P274	Ø 140 mm / 60 mm
P271	Ø 63 mm / 50 mm	P041	Ø 160 mm / 60 mm
P272-30	Ø 75 mm / 30 mm	P042	Ø 200 mm / 75 mm
P272	Ø 75 mm / 50 mm	P043	Ø 250 mm / 75 mm
P038-30	Ø 82 mm / 30 mm	P044	Ø 315 mm / 75 mm

Protecta® FR Pipe Wrap

Fire rated Pipe Wrap

www.cervinkafiregroup.com

General description

Protecta® FR Pipe Wrap is a graphite material within flexible plastic sleeve, which reacts to heat expanding through the penetration and to the melting plastic pipes, which causes the wrap to foam up and fill the free space created. It can be used with plastic pipes (PVC-C, PVC-U, PP, PE, PE-HD, ABS and SAN+PVC), bundles of plastic pipes – with or without cables, and metal pipes with penetrating combustible insulation. Fitted by wrapping around the through-penetration and securing with the adhesive tape, then placing it into the wall or floor construction together with either Protecta® FR Board or Protecta® EX Mortar.

Main uses

The intended use of Protecta® FR Pipe Wrap is to reinstate fire resistance performance of flexible wall constructions, ridged wall construction and ridged floor construction where they are penetrated by various metal pipe services. They can be used with and without combustible insulation and plastic pipes when used in combination with Protecta® EX mortar and Protecta® FR Board.

Features

- For plastic pipe sizes from smallest pipes available to Ø 400 mm with a wide range of pipe wall thicknesses
- For metal pipes with continuous combustible pipe insulation
- For plastic pipes with cables (conduits)
- Pipe wrap comes in two different types; ready made for most common diameters and in 25 metre rolls for all diameters
- Fire classification up to 240 minutes for both integrity and insulation
- Certified for PVC-U, PVC-C, PE, LDPE, MDPE, HDPE, ABS, SAN+PVC and PP pipes
- Tested and certified for U/U pipe end applications
- Classified for fire sealing in all construction types
- Excellent sound insulation
- No emissions - environmentally and user friendly
- Simple to install in both Protecta® FR Board and EX Mortar
- Unlimited storage time (under correct conditions)
- 30 years working life guarantee

Ratings

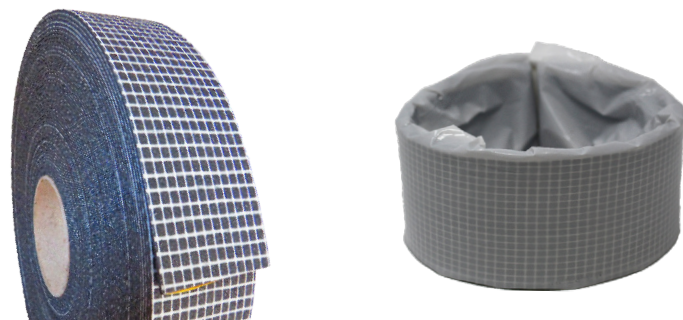
Sound Rating:

- 55 dB RW - Pipe Wraps installed in FR Board.
- 64 dB RW - Pipe Wraps installed in EX Mortar.

Fire rating:

- Up to 4 hours depending on application.

Certificates



Technical data

Technical Approval	ETAG 026-2
Durability according to ETAG 026-2	Z ₂ intended for use in internal conditions with humidity classes other than Z ₁ , excluding temperatures below 0°C.
Conditioning procedure	EN 13238:2010
Expansion ratio	28:1
Expansion pressure	55 N
Colour	Anthracite
Graphite weight	1,3 kg/m ² per mm thickness
Graphite density	1300 kg/m ³
Normal expansion time	Less than 10 minutes
Minimum expansion temperature	+150°C
Storage	Store in temperatures between +5°C and +30°C
Life	Under normal conditions; 30 years +

Packaging variants

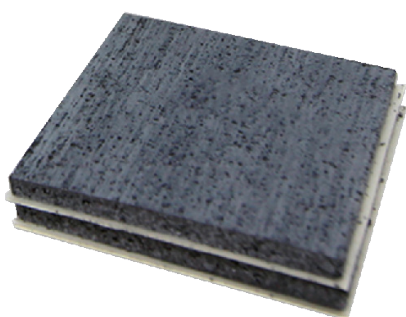
P276	Winding (w x l): 50 mm x 25 m
P099	Winding (w x l): 50 mm x 25 m - Self-adhesive
P106*	Winding (w x l): 75 mm x 25 m

* On request

P069	Made-to-measure wrap 110 mm
P074	Made-to-measure wrap 125 mm
P075	Made-to-measure wrap 160 mm

Protecta® FR Graphite Plate

Preformed self-adhesive intumescent plate for wall boxes



General description

Protecta® FR Graphite Plate is a preformed self-adhesive intumescent plate, used to reinstate the fire resistance performance of flexible wall constructions when punctured with plastic wall boxes. It is used where the walls have been provided with apertures for the penetration of conduits and cables into socket boxes, on one or both sides of the wall. The graphite plate immediately reacts to fire heat and automatically expands and fills up the box, preventing fire and smoke from passing through. Fitting Protecta® FR Graphite Plate will reinstate the fire resistance performance of flexible wall constructions for at least 60 minutes. It also prevents the spreading of smoke and fire through the electrical conduits between socket boxes. Protecta® FR Graphite Plate is available in both circular and square plates.

Main uses

The Graphite Plate immediately reacts to fire heat and automatically expands and fills up the box, preventing fire and smoke from passing through.

Features

- Wall boxes can be fitted back to back
- Up to 120 minutes of both integrity and insulation resistance
- Quick and easy to install
- For flexible walls with a minimum thickness of 75 mm
- Can be used on insulated and uninsulated walls
- Tested with a wide range of cables and conduits interconnected between boxes
- Tested with empty conduits between boxes for future cable transits

Ratings

Fire rating:

- Up to 120 minutes for both integrity and insulation.

Certificates



Technical data

Technical Approval	ETAG 026-2
Fire Test - EN13501-2	EI 30 - 120
Durability - ETAG 026-2	Z ₁ intended for use in internal conditions with humidity classes other than Z ₁ , excluding temperatures below 0°C.
Conditioning procedure	EN 13238:2010
Expansion ratio	17:1
Expansion pressure	65,4 N
Colour	Light Grey with silver flecks
Texture	Textured surface
Finish	Matt finish on one side, other side satin finish
Thickness	Approximately 3,8 mm
Weight per unit area/length	5,1 Kg/m ²
Density	1,409 Kg/m ³
Optimum expansion time	2 minutes
Optimum expansion temperature	+550°C
Usage	Supplied ready to fit, normally one plate is required per electrical socket box
Storage	Store in temperatures between +5°C and +30°C
Life	Under normal conditions; 50 years +

Packaging variants

P210	Graphite plate 45 x 45 mm
------	---------------------------

Protecta® Interior Paint FR-1

Acrylic based intumescent paint

www.cervinkafiregroup.com

General description

Protecta® Interior Paint FR-1 is a decorative paint with special properties to protect against spreading of fire and to protect people's health against harmful chemicals. It is a hard-wearing interior acrylic paint, formulated to the highest specification and offering unsurpassed intensity of colour.

All colours are water-based and provide a smooth, rich and nonreflective finish. It is perfect for a contemporary look and to hide surface imperfections. Protecta® Interior Paint FR-1 is a one-layer system that normally requires no primer nor top coat, is easy to use and very easy to clean up.

Main uses

Ideal for use in communal areas (e.g. public buildings, schools and hospitals) on broad walls and timber as it insulates against heat and prevents the spreading of fire unlike conventional paint systems.

Features

- Protects Your homes, schools, hospitals and other buildings against fire
- Non-Toxic & Emission-free - completely safe
- Durable, robust and designed to last
- Excelent coverage helps to save time and money

Ratings

Fire rating:

- Up to 30 minutes depending on application.

Certificates



Technical data

Type	Acrylic based intumescent paint
Cure system	Water loss
Health and safety	Non-hazardous
Specific gravity	1,40 g/cm ³
Solids (theoretical)	70 %
VOC	0.0001 g/L
Touch dry	1 hour at ~ +22°C & 50 % RH
Hard dry	1,5 hour at ~ +22°C & 50 % RH
Application conditions	Minimum +10°C and humidity lower than 80 %
Temperature range	-30°C to +80°C (when hardened)
Durability	Type Z ₂ internal conditions with humidity lower than 85 % R.H, excluding temperatures below 0°C
Shelf life	Up to 6 months when stored in cool dry well ventilated areas between +20 and +25 °C
Work life	12 years
Packaging	10 litre pails

Packaging variants

P216*	Pail 10 l
-------	-----------

* On request

Protecta® FR Coating

Fire rated coating

www.cervinkafiregroup.com



General description

Protecta® FR Coating spray grade, is an ablative sealant coating designed to enhance, seal and fire protect mineral fibres. It is based on a durable polymer system with inert fillers, non-halogenated fire retardants and a preservative to resist microbial attack.

Protecta® FR Coating is designed to be applied via spraying directly onto mineral fibres. The coating dries to give a sound, flexible white surface finish. During installation of mineral fibres, the cured sealant coating reduces de-lamination and increases surface stability for adhesive and fixing sealant application.

Main uses

The coating applied on mineral fibres is classified for all construction types with or without building service penetrations. Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastics and most non-porous surfaces.

Features

- Easy to retrofit additional building services after installation
- Non-Toxic & Emission-free - completely safe
- Permanently flexible - will accommodate to movements during fire and to smaller movements of the construction itself
- Suitable for most surfaces, including concrete, bricks, masonry, steel, wood, gypsum, glass, plastics and most non-porous surfaces
- May be used in unlimited lengths in walls with heights up to 1200mm and in floors with widths up to 120mm
- May be installed in gypsum walls with no framing around the opening
- Halogen free with added fungicides
- Once fully cured, the coated board resists water and frost

Ratings

Sound Rating:

- Rw 55 dB - Protecta® FR Coating 1 mm WFT on both sides of minimum 50 mm thick stone wool with density minimum 160 kg/m³

Fire rating:

- Up to 180 minutes depending on application.

Certificates



Technical data

Form	Ready to use viscous paste
Cure system	Water loss
Colour	White
Non-sticky	Max. 75 minutes
Totally hardened	3 to 5 days depending on thickness and temperature
Flexibility	Low to medium, 12,5 %
Specific Gravity	1,3 - 1,4
pH	8,5 - 9,2
Flash point	None
Solids Content	> 58 %
Temperature range	-30°C to +80°C (when hardened)
Application temp.	+10°C to +30°C
Shelf life	Up to 12 months when stored in unopened containers under cool and dry conditions. AVOID FROST and temperature extremes. Stored in temperatures between +5°C and +30°C
Durability	Up to 25 years when used as recommended
Packaging	8 litre pails, 200 litre drums

Packaging variants

P059	Pail 8 l / 11,2 kg
P009*	Drum 200 l / 280 kg

* On request

Protecta® Service Coating FR-1

Fire rated coating for cables in service installations

www.cervinkafiregroup.com

General description

Protecta® Service Coating FR-1 is a water-based intumescent coating for the fire protection of cables in a service installation. The coating upgrades the insulation and integrity of the installation. The coating is non-toxic, emission free, durable and can be applied in one coat saving time and money.

Main uses

Protecta® Service Coating FR-1 provides excellent fire resistance, making combustible cables fire-proof. It can be used in combination with Protecta® FR Board as a coatback on services to achieve a higher fire classification.

Features

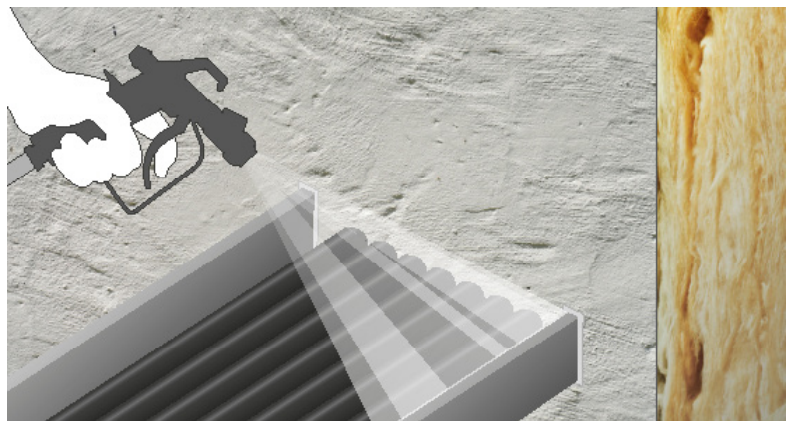
- Non-toxic and emission free with near zero VOC and best possible emission classifications
- Durable, robust and designed to last, can be cleaned with a damp cloth without the risk of washing off the paint
- No topcoat needed, excellent coverage by brush or spray and can be applied in one-coat saving paint and especially application time
- The durability of the coating is expected to be at least 12 years
- Halogen-free with added preservatives that resist bacteria and fungal growth providing extra health protection in addition to the non-harmful emissions

Ratings

Fire rating:

- Up to 90 minutes depending on application.

Certificates



Technical data

Type	Acrylic based intumescent paint
Cure system	Water loss
Colour	Matt white or base
Health & safety	Non-hazardous
Specific gravity	1,40 g/cm ³
VOC	0,0001 g/L
Touch dry	1 hour at ~ +22°C & 50 % RH
Hard dry	1,5 hour at ~ +22°C & 50 % RH
Application conditions	Minimum +10°C and humidity lower than 80 %
Temperature range	-30°C to +80°C (when hardened)
Durability	Type Z ₂ internal conditions with humidity lower than 85 % R.H, excluding temperatures below 0°C
Shelf life	Up to 6 months when stored in cool dry well ventilated areas between +20°C and +25°C
Work life	12 years
Packaging	3 litre pails

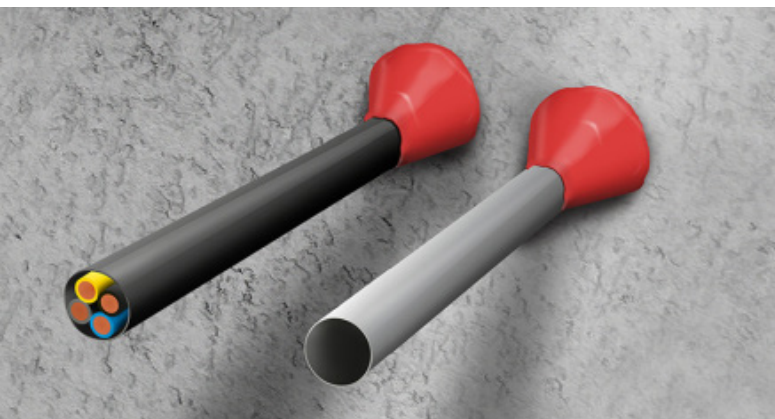
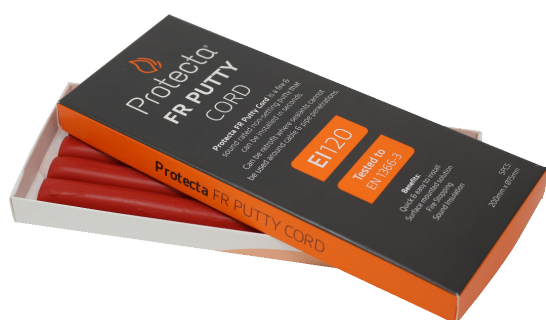
Packaging variants

P226*	Pail 3 l
-------	----------

* On request

Protecta® FR Putty Cord

Fire rated non-setting cord



General description

Protecta® FR Putty Cord is designed to be easily fitted around service penetrations where the gap around the services is very small. Also, it is perfect for places with no gaps at all or when it is impossible or difficult to use conventional fire rated sealant due to the required depth and backing material.

Protecta® FR Putty Cord is an easy to apply fire and sound rated sealant supplied as a non-setting putty. The pad is hand workable, re-serviceable and re-useable due to its non-setting properties. They are supplied in pre-shaped moldable pads which are push-fit self adhesive.

Main uses

Protecta® FR Putty Cord can be retrofitted where sealants cannot be used around cable & pipe penetrations.

Features

- Stops spreading of both cold and hot smoke
- Self-adhesive and very easy to apply without tools
- Unaffected by moisture; can be used in wet rooms
- Never hardens and ensures a tight fit
- Can be reshaped to other sizes if necessary
- Provides excellent sound insulation
- Environment- and user friendly; contains no solvents or VOC's
- Contains a low pressure intumescent for optimal fire protection
- Working life at least 50 years

Ratings

Fire rating:

- Up to 90 minutes depending on application.

Certificates



Technical data

Condition	Ready to use, silicone based putty
Durability/service	Class Z ₂ : Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV
Density	1,55 g/ml
Application temperature	+4°C to +40°C
Service temperature	-70 °C to +120 °C
Storage	Stored in temperatures between +5°C and +30°C
Working life	Under normal conditions; 50 years
Colour	Red
Form	Ø 15 mm x 200 mm cord
Packaging	Carton box

Packaging variants

P245	5 ks: Ø 15 mm x 200 mm
------	------------------------



Co-funded by
the European Union

ČERVINKA[®]FIRE
GROUP

Contact us

Podolská 103/126, Praha 4, 147 00

Establishment:

Rostislavova 1265, Uherské Hradiště, 686 01

ČERVINKA - CZECH REPUBLIC s.r.o.

+420 720 124 125

info@hasicitechnika.com

www.cervinkafiregroup.com



Printing errors reserved. Illustrative images may have been used.