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Smart Fire Block

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S M A R T F I R E B L O C K

www.smartfireblock.rs

About us

The company SmartFireBlock Ltd is a new company established by an enthusiastic team of young people with a background in polymer technology, finance and management. We approach this endeavor with experience, competence and determination. Our business philosophy is to become a strategic and well-organized company that will provide novel technology products and eco-technological solution for the market.

With the growing trend of increased worldwide consumption of Passive Fire Protection (PFP) products, our goal is to establish a modern company for industrial production of PFP products. The increased number of construction sites, requirements for buildings refurbishment and deep renovation with the stricter implementation of fire protection regulations, is opening the room for innovative products on the market. Our aim is to develop quality products and to maintain constant research efforts in order to comply with the goals for sustainable development, environmental protection and green economy.

SMART FIRE COLLAR

Introduction

Smart fire collar is made of 0.8mm stainless steel housing with a flexible insert made of a graphite-based material which swells under the influence of temperature above 150°C.

Application

Smart Fire Collar is used for fire protection of penetrations with copper, plastic pipes (PVC, PVC-U, San+PVC, PE, HDPE, MDPE, PVC-U, PP, PP-RCT, and others) as well as combination of plastic/copper pipes and electric/network cables running through flexible or rigid wall and floors). EASY RETROFIT AT ANY TIME. Horizontal and vertical application. Performance unaffected by weathering (Type X Durability). Innovative technology.

Approvals: EN 1366-3; EN 13501/1-2;ETAG 026-2 (2011) according EN 1366-3 Penetration Seals AS 1530.4-2014; AS 4072.1-2005

Applicable to masonry walls and floors as well as speed panels with 90° and 45° pipe penetrations.

Basic tech data		
	Color and appereance	dark grey, black, red
	Reaction to fire (EN 13501-1)	Class E
	Density	1.1+/-0.2g/cm³
	Application and storage	from -5°C to 80°C
	Expansion rate (ratio) and pressure	unrestircted up to 1:17, 1.8 N/mm²
	Expansion temperature	>150
	Durability class	"X" (Performance unaffected by weathering)

Pipe diameter	Collar inner diameter (mm)	Height mm	Art. No.	Description	Fire clesification
32	37		SFC-32	Smart fire collar, 32mm	
50	55		SFC-50	Smart fire collar, 50mm	
80	85		SFC-80	Smart fire collar, 80mm	
110	115	60	SFC-110	Smart fire collar, 110mm	-/90/90
160	165		SFC-160	Smart fire collar, 160mm	
200	210		SFC-200	Smart fire collar, 200mm	
250	260		SFC-250	Smart fire collar, 250mm	

SMART FIRE ACRYLIC SEALANT

Introduction

Smart fire AS is an acrylic-based, single component fire stopping sealant used for non-movement joints.

Application

- Construction walls and/or floor joints
- Gaps behind fire resistant door casings
- Seating of smart fire grill or collar
- Gaps around metallic pipes and cable penetrations

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals AS 1530.4-2014; AS 4072.1-2005

Applicable to all kinds of joints requiring fire resistance. Can be painted once is cured. Great unprimed adhesion characteristics. Bigger gaps should be filled with stone wool, fire wrap or strip.

Basic tech data		
Color and appereance	white	
Reaction to fire	Class E	
Wet density	1.8g/cm³ (+/- 0.2g/cm³)	
Dry density	1.6g/cm³ (+/- 0.2g/cm³)	
Application and storage temperature	+5°C - +50°C	

Volume	Art. No.	Description	Packaging	Fire clasification
300 ml	SFAS 300	Smart fire acrylic sealant 300 ml	nylon cartrige	-/120/ 120 min

SMART FIRE MASTIC

Introduction

Smart Fire mastic is an acrylic based, intumescent, single component fire stopping sealant which creates high pressure on expansion allowing the sealing of combustible pipes (up to ø50 mm).

Application

Smart fire Mastic is a fire stopping sealant for walls and floors. It is designed for use with cable bundles, combustible and non-combustible pipes with combustible insulation.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals AS 1530.4-2014; AS 4072.1-2005

Applicable to masonry walls and floors as well as speed panels with cable bundles, combustible and non-combustible pipes with combustible insulation and joints without movement.

Basic tech data		
Color and appereance	grey paste	
Reaction to fire	Class E	
Wet density	1.8g/cm³ (+/- 0.2g/cm³)	
Dry density	1.6g/cm³ (+/- 0.2g/cm³)	
Solid content	84 ± 5 wght.%	
Application and storage temperature	+5°C - +50°C	
Expansion ratio	1:11	

Volume	Art. No.	Description	Packaging	Fire clasification
300 ml	SFM 300	Smart fire mastic 300 ml	nylon cartrige	-/120/ 120 min

SMART FIRE PUTTY

Introduction

Smart Fire putty is graphite based powder which swells under the influence of temperature above 150°C.
Smart Fire putty is used for fire protection of penetrations with plastic pipes, metal pipes (both combustable and non combustable insulation) in combination with collars, grills, plug/brick where annular or any other gap need to be closed. Innovative technology.

Application

Smart Fire Putty is used for wall penetration of combustile and non-combustile pipes as well as cables installed in flexibe pipes.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Applicable to masonry walls and floors as well as speed panels penetrations in possible combination with other fire stopping products (collar, wrap, strip etc.)

Basic tech data

Color and appereance	grey powder
Reaction to fire	Class E
pH	>6,0
Density	1 +/- 0.2 g/cm3
VOC	0,0 g/l
Application and storage temperature	+5 °C - +50 °C
Expansion ratio	1:11

Volume	Art. No.	Description	Packaging	Fire clasification
300 ml	SFM 300	Smart fire mastic 300 ml	nylon cartrige	-/120/120 min
4 kg	SFP 4000	Smart fire putty 4000ml	nylon cartrige	-/120/120 min
10kg	SFP 10000	Smart fire putty 10000ml	plastic bucket	-/120/120 min

SMART FIRE GRILL SQUARE

Introduction

Smart Fire Grill are made from galvanized metal sheets partly filled with graphite based material that expands under the influence of high temperatures. Intumescent inserts completely fill remaining gaps when exposed to temperatures above 150°C thus preventing the spread of flame and smoke. Innovative technology.

Application

Smart fire grills are installed in the ventilation holes in walls, floors and doors.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Basic tech data

Thickness	46mm
Free area	55% aprox.
Fire ressistance	UP TO 120min

Height (mm)	Width (mm)										
	150	200	225	250	300	350	400	450	500	550	600
100	SFG-HW-100x150	SFG-HW-100x200	SFG-HW-100x225	SFG-HW-100x250	SFG-HW-100x300	SFG-HW-100x350	SFG-HW-100x400	SFG-HW-100x450	SFG-HW-100x500	SFG-HW-100x550	SFG-HW-100x600
150	SFG-HW-150x150	SFG-HW-150x200	SFG-HW-150x225	SFG-HW-150x250	SFG-HW-150x300	SFG-HW-150x350	SFG-HW-150x400	SFG-HW-150x450	SFG-HW-150x500	SFG-HW-150x550	SFG-HW-150x600
200	SFG-HW-200x150	SFG-HW-200x200	SFG-HW-200x225	SFG-HW-200x250	SFG-HW-200x300	SFG-HW-200x350	SFG-HW-200x400	SFG-HW-200x450	SFG-HW-200x500	SFG-HW-200x550	SFG-HW-200x600
225	SFG-HW-225x150	SFG-HW-225x200	SFG-HW-225x225	SFG-HW-225x250	SFG-HW-225x300	SFG-HW-225x350	SFG-HW-225x400	SFG-HW-225x450	SFG-HW-225x500	SFG-HW-225x550	SFG-HW-225x600
250	SFG-HW-250x150	SFG-HW-250x200	SFG-HW-250x225	SFG-HW-250x250	SFG-HW-250x300	SFG-HW-250x350	SFG-HW-250x400	SFG-HW-250x450	SFG-HW-250x500	SFG-HW-250x550	SFG-HW-250x600
300	SFG-HW-300x150	SFG-HW-300x200	SFG-HW-300x225	SFG-HW-300x250	SFG-HW-300x300	SFG-HW-300x350	SFG-HW-300x400	SFG-HW-300x450	SFG-HW-300x500	SFG-HW-300x550	SFG-HW-300x600
350	SFG-HW-350x150	SFG-HW-350x200	SFG-HW-350x225	SFG-HW-350x250	SFG-HW-350x300	SFG-HW-350x350	SFG-HW-350x400	SFG-HW-350x450	SFG-HW-350x500	SFG-HW-350x550	SFG-HW-350x600
400	SFG-HW-400x150	SFG-HW-400x200	SFG-HW-400x225	SFG-HW-400x250	SFG-HW-400x300	SFG-HW-400x350	SFG-HW-400x400	SFG-HW-400x450	SFG-HW-400x500	SFG-HW-400x550	SFG-HW-400x600
450	SFG-HW-450x150	SFG-HW-450x200	SFG-HW-450x225	SFG-HW-450x250	SFG-HW-450x300	SFG-HW-450x350	SFG-HW-450x400	SFG-HW-450x450	SFG-HW-450x500	SFG-HW-450x550	SFG-HW-450x600
500	SFG-HW-500x150	SFG-HW-500x200	SFG-HW-500x225	SFG-HW-500x250	SFG-HW-500x300	SFG-HW-500x350	SFG-HW-500x400	SFG-HW-500x450	SFG-HW-500x500	SFG-HW-500x550	SFG-HW-500x600
550	SFG-HW-550x150	SFG-HW-550x200	SFG-HW-550x225	SFG-HW-550x250	SFG-HW-550x300	SFG-HW-550x350	SFG-HW-550x400	SFG-HW-550x450	SFG-HW-550x500	SFG-HW-550x550	SFG-HW-550x600
600	SFG-HW-600x150	SFG-HW-600x200	SFG-HW-600x225	SFG-HW-600x250	SFG-HW-600x300	SFG-HW-600x350	SFG-HW-600x400	SFG-HW-600x450	SFG-HW-600x500	SFG-HW-600x550	SFG-HW-600x600

Introduction

Smart Fire Grill are made from galvanized metal sheets partly filled with graphite based material that expands under the influence of high temperatures. Intumescent inserts completely fill remaining gaps when exposed to temperatures above 150°C thus preventing the spread of flame and smoke. Innovative technology.

Application

Smart fire grills are installed in the ventilation holes in walls, floors and doors.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Introduction

Smart fire wrap/strip is made of a graphite based material which swells under high temperature influence and fills the entire space left after burnt-out combustible installations. Innovative technology.

Application

Smart Fire Wrap/Strip is used for fire protection of penetrations with plastic pipes (PVC, PVC-U, San+PVC, PE, HDPE, MDPE, PVC-U, PP, PP-RCT, and others) running through flexible or rigid walls horizontal and vertical application. Performance unaffected by weathering (Type X Durability). It is applied in a single or multiple wraps depending on a pipe diameter.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Applicable as a part of HVAC systems in round pipes as well as masonry walls ventilation grill.

Smart fire wrap is applicabe as metal pipes or cables penetration gap fill wrap. Smart Fire Strip is used for plastic pipes.

Diameter (mm)	fire clasification
100	
125	
150	
160	
200	
225	UP TO
300	-/120/120 min.
315	
350	
400	
500	
550	
600	

Basic tech data	
Thickness	46mm
Free area	55% aprox.
Fire ressistance	UP TO 120min

Basic tech data	
Color and appereance	dark grey
Reaction to fire	Class E
Density	1.1+/-0.2 g/cm³
Application and storage	+5°C +60°C
Expansion rate and pressure	1:20, 0.13N/mm²
Expansion temperature	above 150°C
Durability class	"X" (Performance unaffected by weathering)

Pipe type	Pipe diameter	Wall//Floor/ceiling
PVC		
PP		
HDPE	32-160mm	-/120/120 min
PEX/Al/PEX		
PE-RT/Al/PE-RT		
PP-R/Al/PP-R		

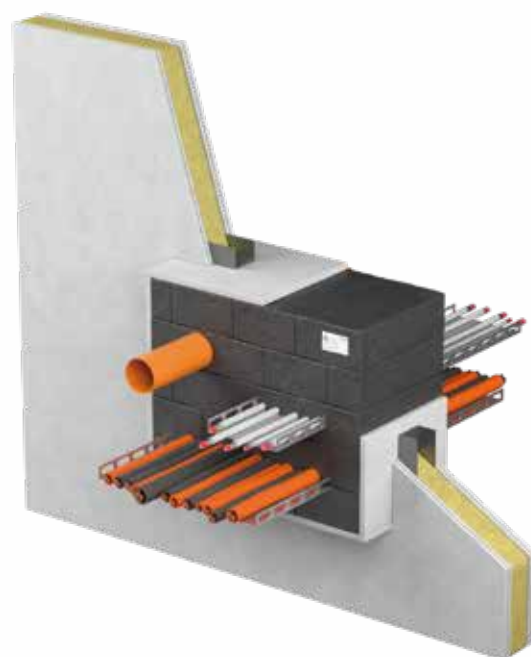| Description	Art. No.	Dimensions
Smart fire wrap 450x855x7.5mm	SFW-4585	450x855x7.5mm
Smart fire wrap 350x805x7.5mm	SFW-3580	350x805x7.5mm
Smart fire wrap 350x605x7.5mm	SFW-3560	350x605x7.5mm
Smart fire wrap 855x6x2.5mm	SFS-85	855x6x2.5mm
Smart fire wrap 605x6x2.5mm	SFS-60	605x6x2.5mm

SMART FIRE BRICK

Introduction

Smart fire brick is graphite based seal which swells under high temperature influence and fills the entire space left after burnt-out of combustible installations. Horizontal application.

Application

Smart fire brick is used as a seal for wall/floor/ceiling penetration of single cables as well as smaller cable bundles or small diameter pipes. It can be stacked to a maximum area of 1,4m²

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Applicable to masonry walls and speed panels on area up to 1,4m².

SMART FIRE BRICK		
Dimensions (mm)	**Art No**	**Fire classification**
200x140x60	SFB-200.140	UP TO -/120/120 min

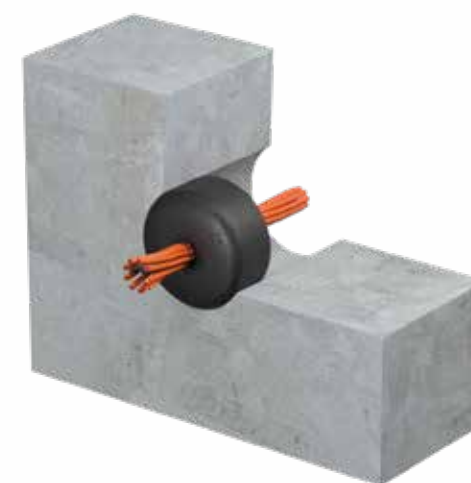| Basic tech data		
Color and appereance	dark grey, brick red
Reaction to fire	Class E
Density	0.25+/-0.05 g/cm³
Application and storage	-5°C +60°C
Expansion rate under load	1:2
Expansion temperature	150°C

SMART FIRE PLUG

Introduction

Smart fire plug is graphite based shaped seal which swells under high temperature influence and fills the entire space left after burnt-out of combustible installations. Horizontal application. Innovative technology.

Application

Smart fire brick is used as a seal for wall/floor/cealing penetration of single cables as well as smaller cable bundles or small diameter pipes.

Approvals: EN 1366-3; ETAG 026-2 (2011) according EN 1366-3 Penetration Seals
AS 1530.4-2014; AS 4072.1-2005

Applicable to cable bundle and pipe penetrations in masonry walls.

Basic tech data		
Color and appereance	dark grey, brick red
Reaction to fire	Class E
Density	0.25+/-0.05 g/cm³
Application and storage	-5°C +60°C
Expansion rate under load	1:2
Expansion temperature	150°C

SMART FIRE PLUG		
Bottom/Top Diameter (mm)	**Art No**	**Fire classification**
67/77	SFP-67.77	
82/92	SFP-82.92	
112/122	SFP-112.122	
127/137	SFP-127.137	UP TO -/120/120 min
142/152	SFP-142.152	
172/182	SFP-172.182	
212/222	SFP-212.222	
222/272	SFP-262.272	

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