

**Promat**

PROMAPAIN<sup>®</sup> DC1  
fire resistant coating

## PROMAPAIN<sup>®</sup> DC1

Ablative fire resistant coating for steel HVAC ducts

[www.promat-ap.com](http://www.promat-ap.com)



The relative complexity of any ductwork system passing through different fire compartments and the relevance of the system's function in ambient as well as fire conditions can make the selection of a suitable ductwork system difficult.

Ducts meant for the continuous conveying of air or smoke passing through a fire resistant element punctures the compartmentation function of the element. Fire dampers cannot be employed as the ducts need to function as a unobstructed conveyor of air and smoke during a fire. In such situations, a fire resistance duct is the answer.

Likewise unprotected steel smoke extraction ducts deforms in fire negating its capacity to exhaust smoke. Smoke extraction ducts tested to BS 476:Part 24 must maintain 75% of its cross sectional area in order to fulfil the requirement of a smoke extraction duct.

This document aims to give some guidance on the fire performance requirements of ducts and the protection of ducts using PROMAPAIN<sup>®</sup> DC1.

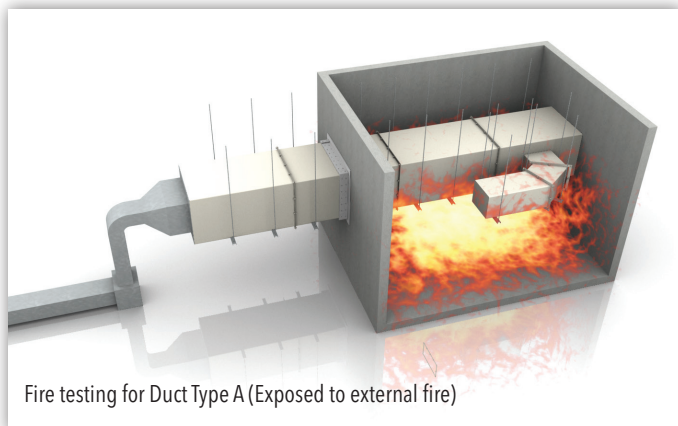
### Fire Testing Methods

To determine the fire resistance of ducts passing through or between compartments, the system should normally be tested or assessed in accordance with BS 476: Part 24: 1987 or AS 1530: Part 4: 2005 or BS EN 1366: Parts 1, 8 and 9.

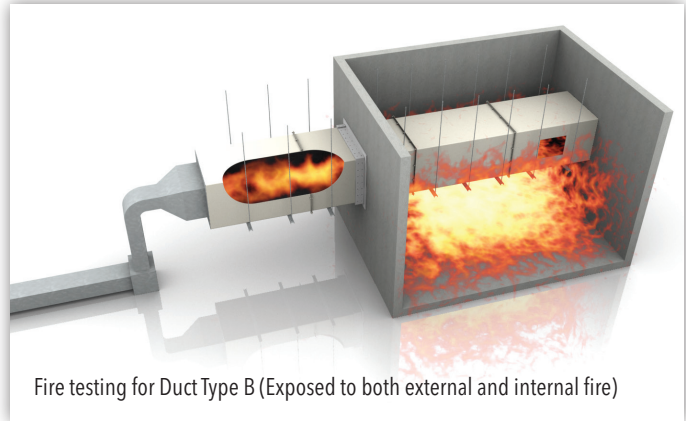
These standards have been written specifically for fire performance testing of ventilation eg. fresh air duct, exhaust air duct and for smoke extraction ducts.

The following information refers to BS 476: Parts 20 and 24. As part of a standard fire test, duct systems are exposed to external fire (also known as Duct Type A) and another duct subject to both external & internal fire (also known as Duct Type B). Fans attached create a standard pressure difference and air flow and the duct's fire performance is assessed in both fan-on and fan-off situations. When testing horizontal ducts, a run of at least 3000mm is located within the test furnace. EN 1366 standards requires a 4000mm length within the furnace and 2500mm outside the furnace on the unexposed face of the specimen.

BS 476: Part 24 expresses the fire resistance of ducts, in terms of stability, integrity and insulation.



Fire testing for Duct Type A (Exposed to external fire)



Fire testing for Duct Type B (Exposed to both external and internal fire)

Stability failure occurs when the suspension or fixing devices can no longer retain a duct in its intended position or when sections of the duct collapse. This requirement does not apply to the length of the duct exposed to internal and external fire (Duct Type B) within the furnace.

It should be noted that if a duct suffers extensive deformation, such that it can no longer fulfil its intended purpose, this would be classed as stability failure. For Duct Type A, loss of pressure within the duct during testing is also construed as stability failure.

Integrity failure occurs when cracks, holes or openings occur in the duct or at any penetrations within walls or floors, through which flames or hot gases can pass. The effects on integrity of the movement and distortion of both restrained and unrestrained ducts are also included in the standard.

Insulation failure occurs when the temperature rise on the outer surface of the duct outside the furnace exceeds 140°C (mean) or 180°C (maximum). Annex A the non-mandatory section of the standard states that ducts lined with combustible materials or coated internally with fats or greases, e.g. kitchen extract, should also have this criterion for the inner surface of the duct within the furnace when the duct is exposed to external fire (Duct Type A).

### General Design Considerations

The following points are some of the factors which should be considered when determining the correct specification to ensure a ductwork system will provide the required fire performance.

#### Required Fire Exposure

Ductwork systems which are located in more than one compartment should always be tested or assessed for their performance when exposed to the heating conditions described within BS 476: Part 20: 1987. Reduced heating curves are generally only acceptable for certain of the systems components, e.g. the fan.

The performance of a ductwork system will vary depending on whether or not a fire could have direct access to inside the duct through an unprotected opening. If in doubt, one should assume direct access, i.e. the prescribed Duct Type B scenario. The construction of PROMAPAIN<sup>®</sup> DC1 fire resistant ducts detailed in this document fulfil both Duct Type A and B requirements.



### Required Fire Performance

To qualify as a fire resistant smoke extraction duct PROMAPAIN<sup>®</sup> DC1 fire resistant duct has also proven to be capable of maintaining a minimum 75% of its cross section area throughout the duration of the fire exposure. In specific occasions and situation, for example in ventilation-extraction ducts that run within a single compartment where the contact with combustible material and risk to personnel in contact with the duct is assessed as low, the fire authorities may exercise relaxation to waive the insulation criteria.

### Supporting Structure

Care should be taken that any structural element from which the duct system is supported, e.g. a beam, floor or wall, must have as a minimum the same fire resistance as the duct system itself and must be able to support the load of the duct under fire conditions.

### Hanger Support

The supporting steel hanger rods, channels and fixings should be appropriate for the load of the complete ductwork system including any applied insulation material or other services suspended from it.

Particular attention should be exercised where the hanging length of the hanger is too long where the effect of the thermal expansion may become a concern and where excessive expansion could place undue stress on the duct thus leading to premature failure during a fire incident. As a guide, hanger >2500mm should be given some attention in assessing this risk.

The stress allowance of the steel hanger rods for a 120 minute fire resistant duct should not exceed 10N/mm<sup>2</sup> and the centres of the hanger supports should not exceed 2500mm. These figures are based on research done on the stress and strains of steel members under simulated fire conditions.

The stress reduction ratio factors below are based on BS EN 1993-1-2: 2005. Similar figures can be applied from AS/NZS 4600: 2005/Amendment 1: 2010.

Fire resistance period	Approximate temperature	Maximum permitted stress	Maximum permitted centres
30 minutes	840°C	18N/mm <sup>2</sup>	2500mm
60 minutes	950°C	10N/mm <sup>2</sup>	2500mm
90 minutes	1000°C	10N/mm <sup>2</sup>	2500mm
120 minutes	1050°C	10N/mm <sup>2</sup>	2500mm
180 minutes	1110°C	6N/mm <sup>2</sup>	2000mm
240 minutes	1150°C	6N/mm <sup>2</sup>	1500mm

It should be noted that the stress levels referred to above apply to the threaded rod hanger supports themselves. The horizontal members have a differing level of applicable stress. The maximum centres refer to the greatest allowable distance between hanger support systems. However it should be noted that in certain locations, bends for instance, additional supports at lesser centres should be considered.

Where the hanger support system may exceed the limits given in the table above, the remedial options are as follows:

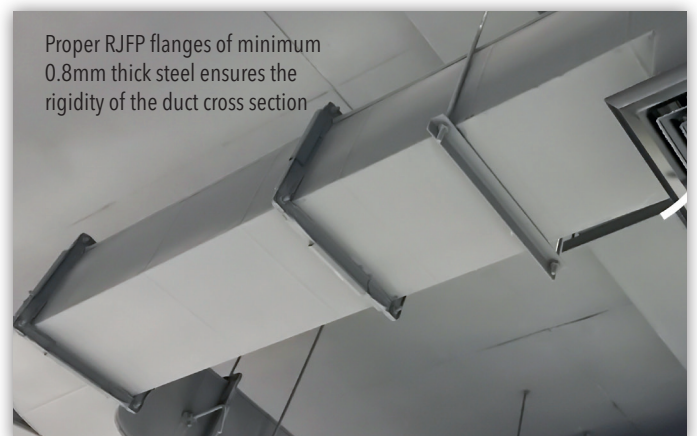
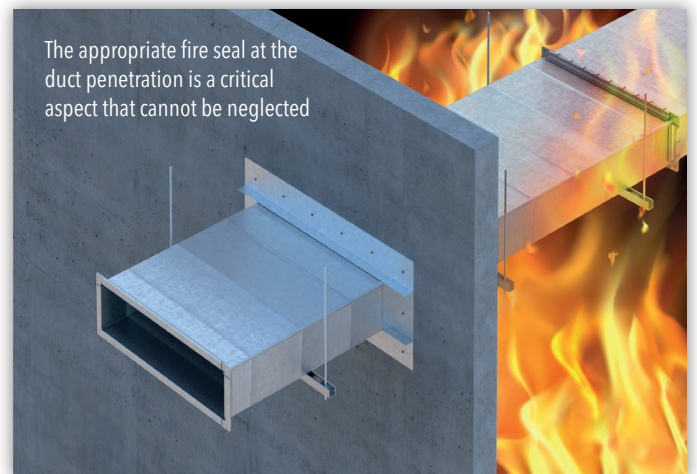
- 1) increase the dimensions of the hanger support system, e.g. rod diameters etc,
- 2) reduce the centres of the hanger support system, or
- 3) protect the hanger rods.

### Steel Ductwork

The steel duct must be constructed in accordance with the requirements of DW/144, "Specification for sheet metal ductwork: Low, medium and high pressure/velocity air systems (published by the Heating and Ventilating Contractors' Association UK)" or equivalent specification, e.g. SMACNA. The steel ducts must be constructed with rolled steel angle-flanged cross joints. It is recommended that longitudinal seams be formed using the Pittsburgh lock system.

### Penetrations Through Walls & Floors

Care should be taken to ensure that movement of the duct in ambient or in fire conditions does not adversely affect the performance of the wall, partition or floor, or any penetration seal. It should be understood that where a duct passes through any compartment wall or floor or other type of separating element, the aperture between the element and the duct must be sealed in accordance with the system approved for use with the specific duct system. In general this requires the use of a penetration seal constructed from materials and in such a manner to match the system used in the duct test programme. Penetrations seals are part of the tested duct system and the use of untested third party products or systems are not permitted.



### General description

PROMAPAIN<sup>®</sup> DC1 is a special acrylic based, single component coating, specially formulated to protect steel ducts up to E 120 minutes.

PROMAPAIN<sup>®</sup> DC1 forms a flexible layer once dry, it is very suitable for accommodating movement and also resistant to moisture.

PROMAPAIN<sup>®</sup> DC1 is a lightweight product which is designed to keep its adhesion to the steel surface even in case of stress and deformation due to extreme weather condition and in fire condition.

Steel duct protected with PROMAPAIN<sup>®</sup> DC1 has been tested according to BS 476 Part 24 for ducts A and B.

### Fields of application

Compartmentation is widely used worldwide to limit fire spread throughout the building. Air ducts can be often a critical point, because they connect different compartments and, in case of collapse due to temperature, the sealing of the penetration through wall or ceilings can be compromised.

Fire dampers within ductwork systems are normally used to avoid flame and smoke spread, but in some cases, such as car park extract ducts, smoke extract ducts or pressurisation ducts, the fire dampers cannot be used, therefore a fire resistant duct is necessary. Depending on the building design and local regulations, the ducts can require insulation and integrity or integrity only.

PROMAPAIN<sup>®</sup> DC1, applied to a thickness of approximately 0.5mm, improve the fire resistance of the steel ducts up to E 120 minutes, limiting the increase of weight and the external dimensions of the duct.

### System advantages / customer benefit

- Up to 60% movement capability
- Excellent adhesion qualities
- Moisture resistant once dry
- Tested for accelerated aging both under Z1 (ETAG 018) and extreme conditions (up to 45°C, 90% humidity)
- Reduction in duct reinforcement
- Limit increase of weight and almost no increase in dimensions
- Easy to apply

### Surface Preparation

It is important for long term durability that the galvanised steel ducts must be clean and free from any dust, oil, grease or any other contaminant prior to application of PROMAPAIN<sup>®</sup> DC1.

The steel duct surface should be cleaned with a solvent degreasing agent to ensure all surfaces are clean.

In case of critical adhesion, an appropriate etching primer (with a DFT of 60-80 microns) can be used within four hours after cleaning/degreasing.

### Application of PROMAPAIN<sup>®</sup> DC1

- Stir PROMAPAIN<sup>®</sup> DC1 well (we recommend a mechanical mixer);
- PROMAPAIN<sup>®</sup> DC1 can be diluted (maximum 0.5 litre clean water to each 12kg container);
- PROMAPAIN<sup>®</sup> DC1 can be applied with a brush, roller or airless device;
- The recommendation of Promat is for the use of airless spray equipment, which will allow fast and simple application of the PROMAPAIN<sup>®</sup> DC1 in a single pass. The coating should be sprayed to a minimum dry film thickness (DFT) of about 500 to 600 microns.
- Once opened, the contents should be fully used as soon as possible. Reseal containers properly after use;
- Clean tools with water after use;
- 500 microns dry-film thickness is equivalent to 700 microns wet-film thickness (approx. 1.000 g/m<sup>2</sup>);
- Top coat or overpainting is possible; adhesion and compatibility must be checked.

### Application Conditions

- Minimum +5°C, maximum +40°C for both substrate and ambient temperature;
- Relative humidity of more than 65% will result in extended drying times;
- Substrate must be free of oil, grease and dust;
- Use clean water to dilute PROMAPAIN<sup>®</sup> DC1 if necessary.

### Packaging

- 12 kg plastic bucket
  - 33 buckets /pallet
  - 396 kg/pallet
- Subject to change.

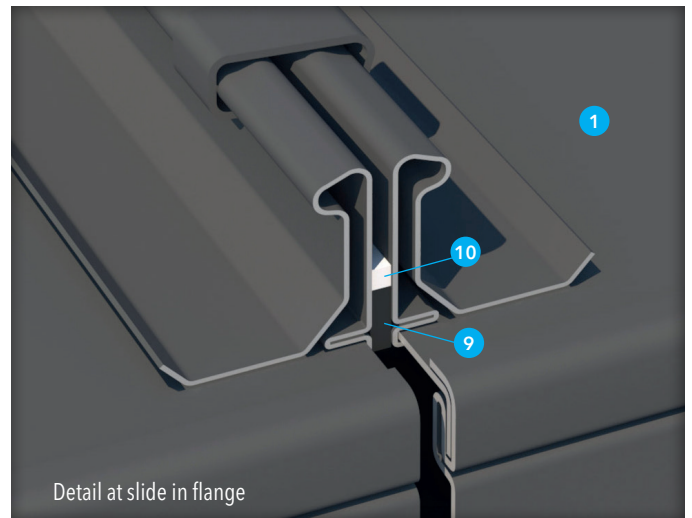
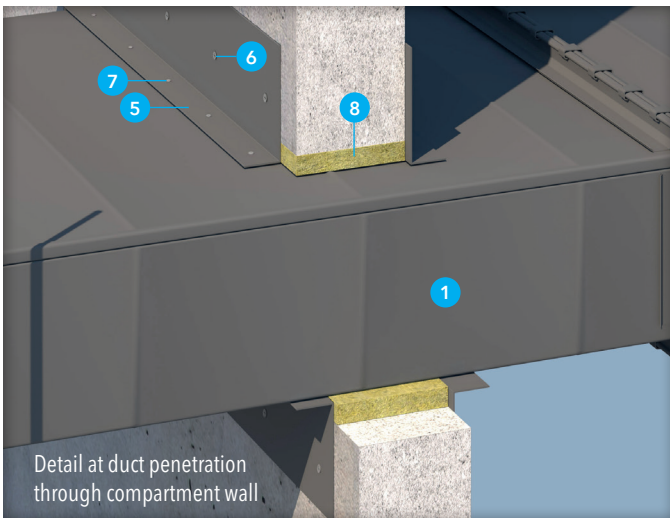
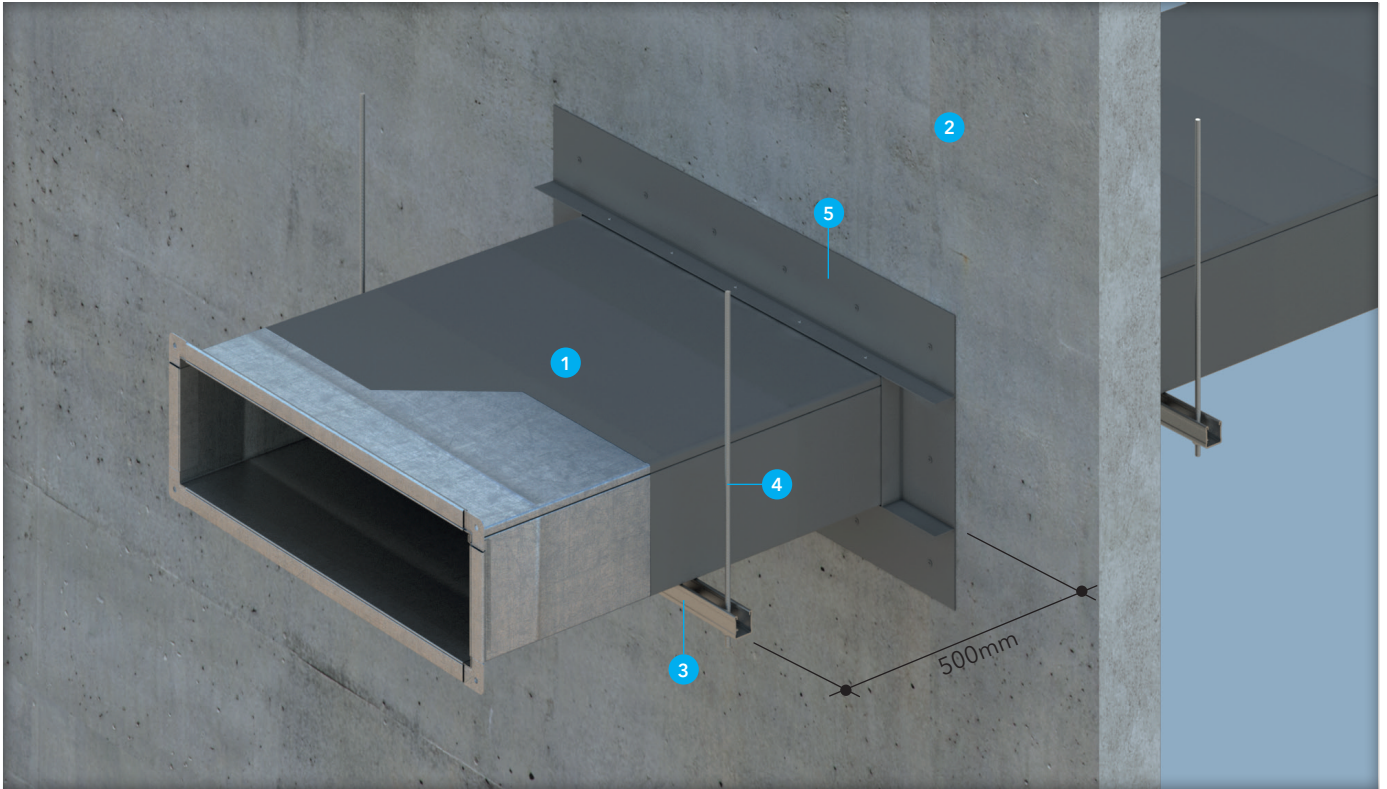
### Storage requirements

- Store in cool and dry conditions
- Protect from heat and frost
- Shelf life of original sealed containers at least 12 months
- Once opened, containers should be finished swiftly

### Safety instructions

Please refer to the safety data sheet for additional advice

General Technical properties	
Colour	grey
Density	1.35g/cm <sup>3</sup>
Viscosity	approx. 60.000mPa.s
Solid Content	approx. 70%
Ash Content	approx. 30%
Shore A	40
Tensile Strength	0.35 MPa
Elongation before failure	approx. 250%
Drying time	approx. 8 hours at 20°C and a relative humidity of 65% for 1mm



- 1 Galvanised steel duct coated with PROMAPAIN<sup>®</sup> DC1 (566 microns - DFT)
- 2 Concrete wall
- 3 Support angle or channel
- 4 M10 threaded steel rod
- 5 Steel angle 150 x 50 x 1.5mm thick
- 6 Universal screw 4 x 70mm length at 200mm on centres
- 7 Stainless steel rivets with 4.5mm head diameter, 50mm from side and maximum spacing of 120mm on centres
- 8 Mineral wool insulation 50mm x 100kg/m<sup>3</sup>
- 9 EPDM gasket between flanges 4 x 12mm
- 10 PROMASEAL<sup>®</sup>-A between flanges

PROMAPAIN<sup>®</sup> DC1 fire resistant coating around steel ducts has been thoroughly tested in accordance with the criteria of BS 476: Part 24: 1987, exposed to external and internal fire. It meets the stability & integrity criteria for in excess of 120 minutes. PROMAPAIN<sup>®</sup> DC1 protected steel duct is also able to maintain 75% of its cross sectional area during the test duration and hence qualify as a fire resistant smoke extraction duct in accordance with BS 476: Part 24: 1987. Consult Promat Technical Department for further information.



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Etex is a Belgian industrial group that specialises and markets high quality building materials and systems. Founded since 1905 and headquartered in Brussels, Belgium, Etex currently operates in 107 factories and 102 subsidiaries across 42 countries, employs more than 15,000 people and is one of the largest fibre cement producers in the world.

Through its subsidiaries, the group offers an extensive range of products: small and large roofing materials, cladding and building boards, passive fire protection systems and ceramic tiles.

Etex aims to be a professional, solid partner for all kinds of building projects.

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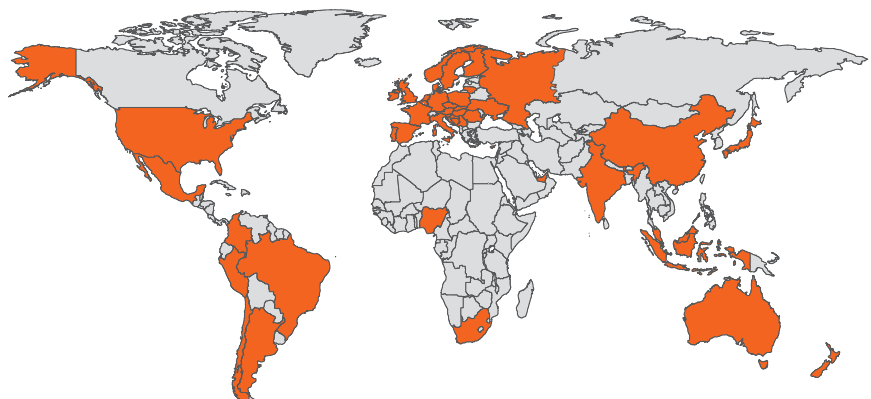
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- All data contained herein conforms to and frequently surpasses generally accepted fire protection standards recognised by most professional fire science practitioners and regulatory authorities worldwide. The same general principle is equally applicable to all Promat products and systems. Promat has access to a considerable body of test authentication data and this can be provided on a complimentary basis upon request. It should be noted however that this publication replaces all previous editions in its entirety. Any form of reproduction by any means – manual, electronic, digital or otherwise – is strictly prohibited and subject to prior approval in writing from Promat. All rights related or connected to the Promat logo, Promat registered trademarks, featured illustrations, written information and technical reports in this publication are the sole, exclusive and copyright property of Promat and its legal partner companies.

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# PROMAPAIN<sup>®</sup> DC1

Ablative fire-resistant coating  
for steel HVAC ducts

## Product Datasheet



# PROMAPAIN<sup>®</sup> DC1

Ablative fire-resistant coating  
for steel HVAC ducts



PROMAPAIN<sup>®</sup> DC1 is a special acrylic based, single component coating, specially formulated to protect steel ducts up to E120 minutes according to BS 476.

PROMAPAIN<sup>®</sup> DC1 forms a flexible layer once dry, it is very suitable for accommodating movement and it's also resistant to moisture.

PROMAPAIN<sup>®</sup> DC1 is a lightweight product which is designed to keep its adhesion to the steel surface even in case of stress and deformation due to extreme weather condition and/or fire exposure.

Steel ducts protected with PROMAPAIN<sup>®</sup> DC1 have been tested according to BS 476 Part 24 for ducts A and B.

## Fields of application

Compartmentation is widely used worldwide to limit fire spread throughout the building. Air ducts can be often a critical point, because they connect different compartments and, in case of collapse due to temperature, the sealing of the penetration through wall or ceilings can be compromised.

Fire dampers within ductwork systems are normally used to avoid flame and smoke spread, but in some cases, such as car park extract ducts, smoke extract ducts or pressurisation ducts, the fire dampers cannot be used, therefore a fire resistance duct is necessary. Depending on the building design and local regulations, the ducts can require insulation and integrity or integrity only.

PROMAPAIN<sup>®</sup> DC1, applied to a thickness of approximately 570 microns for Duct A (outside) and 350 microns for Duct B (inside), improves the fire resistance of the steel ducts of minimum thickness 0.8 mm, up to E120, limiting the increase of weight and the external dimensions of the duct.

## System advantages / customer benefit

- Up to 60% movement capability
- Excellent adhesion qualities
- Moisture resistant once dry
- Tested for accelerated aging both under Z1 (ETAG 018) and extreme conditions (up to 45°C, 90% humidity)
- Reduction in duct reinforcement
- Limit increase of weight and almost no increase in dimensions

## Test certificate / approval

BS 476 Part 24 for ducts A and B

## Surface Preparation

It is important for long term durability that the galvanised steel ducts must be clean and free from any dust, oil, grease or any other contaminant prior to application of PROMAPAIN<sup>®</sup> DC1.

The steel duct surface should be cleaned with a solvent degreasing agent to ensure all surfaces are clean.

In case of critical adhesion, an appropriate etching primer (with a DFT of 60-80 microns) can be used within four hours after cleaning/degreasing.

## Application of PROMASEAL<sup>®</sup> DC1

- Stir PROMAPAIN<sup>®</sup> DC1 well (we recommend a mechanical mixer);
- PROMAPAIN<sup>®</sup> DC1 can be diluted (maximum 0.35 litre clean water to each 12 kg container);
- PROMAPAIN DC1 can be applied with a brush, roller or airless device;
- The recommendation of Promat is for the use of airless spray equipment, which will allow fast and simple application of the PROMAPAIN<sup>®</sup> DC1 in a single pass. The coating should be sprayed to a minimum dry film thickness (DFT) as reported in the assessments.
- Once opened containers should be fully used as soon as possible. Reseal containers properly after use;
- Clean tools with water after use;
- 570 microns dry film thickness is equivalent to 785 microns wet film thickness (approx 1,140 g/m<sup>2</sup>). 350 microns dry film thickness is equivalent to 490 microns wet film thickness (approx 700 g/m<sup>2</sup>);
- Overpainting is possible; adhesion and compatibility must be checked.

## Application Conditions

- Minimum +5 °C, maximum +40 °C for both substrate and ambient temperature;
- Relative humidity of more than 65 % will result in extended drying times;



- Substrate must be free of oil, grease and dust;
- Use clean water to dilute PROMAPAIN<sup>®</sup> DC1 if necessary (max.3%).

## Packaging

- 12 kg plastic bucket
- 60 buckets /pallet
- 720 kg/pallet
- Subject to change.

## Storage requirements

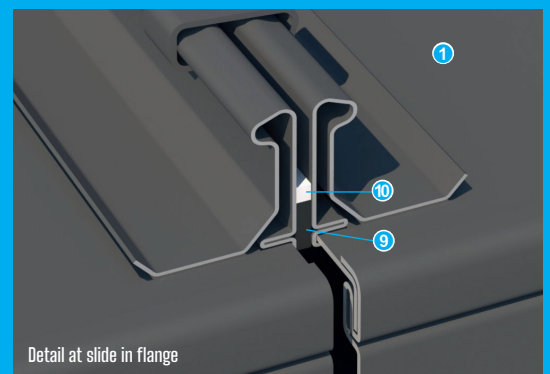
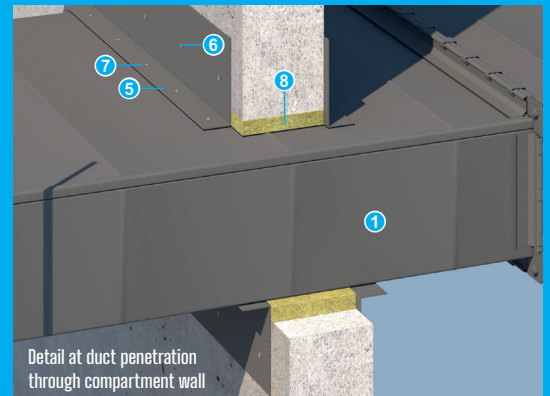
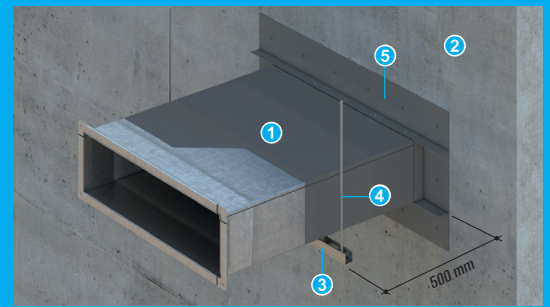
- Store in cool and dry conditions
- Protect from heat and frost
- Shelf life of original sealed containers at least 12 months
- Once opened, containers should be finished swiftly

## Safety instructions

- Processing guidelines and information on safety are available with your local Promat / Etex subsidiary or branch office.
- EUH210 - Safety data sheet available on request.
- EUH208 - Contains reaction mass of: 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9), 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one(2634-33-5). May produce an allergic reaction.

General Technical properties	
Colour	grey
Density	1.35 g/cm <sup>3</sup>
Viscosity	approx. 60.000 mPa.s
Solid Content	approx. 70%
Ash Content	approx. 30%
Shore A	40
Tensile Strength	0.35 MPa
Elongation before failure	approx 250%
Drying time	approx. 8 hours at 20 °C and a relative humidity of 65 % for 1 mm;

Longer side (mm)	Thickness (mm)	Standard Straight Length (mm)	Hanger Spacing (mm)	Stiffener	Cross Joint	Clamp (mm)	Bearer	Drop Rod (mm)
				Intermediate	Type/Rating			
1000	0.8	1200	1000	-	RSA 25x25x3	200	S-channel 41x41x2.5	8
1250	0.9	1200	1000	-	RSA 30x30x4	200	C-channel 76x38	8
1500	1.0	1200	1000	RSA 30x30x4	RSA 30x30x4	200	C-channel 76x38	10
2500	1.0	1200	1000	RSA 40x40x4	RSA 30x30x4	200	C-channel 102x51	12
3000	1.2	1200	1000	RSA 50x50x5	RSA 30x30x4	200	C-channel 102x51	12



- 1 Galvanised steel duct coated with PROMAPAIN<sup>®</sup> DC1
- 2 Concrete wall
- 3 Support angle or channel
- 4 M10 threaded steel rod
- 5 Steel angle 150 x 50 x 1.5mm thick
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- 7 Stainless steel rivets with 4.5mm head diameter, 50mm from side and maximum spacing of 120mm on centres
- 8 Mineral wool insulation 50mm x 100kg/m<sup>3</sup>
- 9 EPDM gasket between flanges 4 x 12mm
- 10 PROMASEAL<sup>®</sup>-A between flanges

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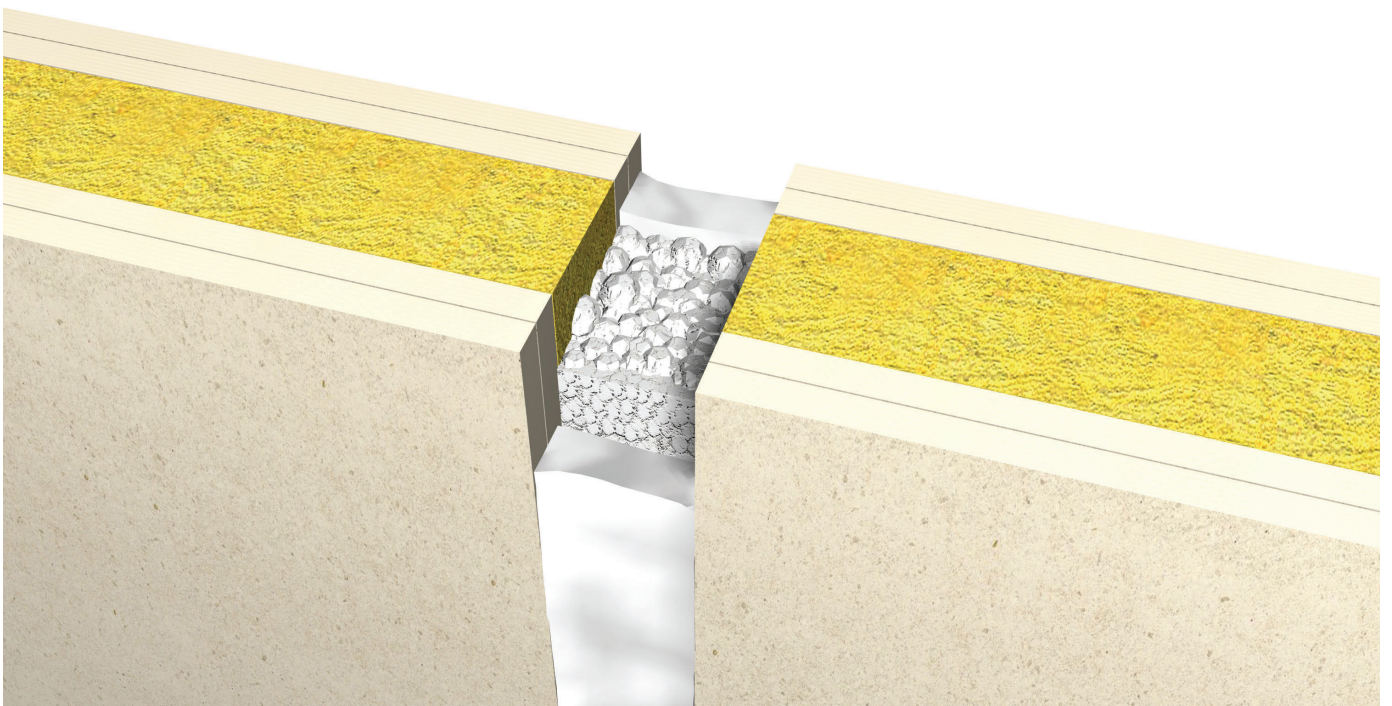
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## PROMASEAL® Acrylic Sealant Product Data Sheet

### Fire stopping acrylic



[www.promat-international.com](http://www.promat-international.com)







## General description

PROMASEAL® Acrylic Sealant is an acrylic based sealant used to reinstate the fire resistance performance wall and floor constructions where they have been provided with apertures for the penetrations of multiple services, also to form linear gap seals where gaps are present within the wall and floor constructions and linear joints where wall and floor constructions abut.

PROMASEAL® Acrylic Sealant has slight intumescent properties that cause it to swell upon heating and can achieve fire rating upto 240 minutes.

## Fields of application

Linear joints seals in flexible & rigid walls and floor construction.

Penetration seals around steel /copper pipes, electrical cables, cable trays & ladders.

## System advantages / customer benefit

- Paintable
- Adhesions to most substrates
- Backing material can be either Rockwool ( 80kg/m<sup>3</sup> ) or PE backing rods
- Halogen free, resist fungi & Vermin
- Tack Free, Water & UV resistant

## Approvals

- UL-US & UL-C listed
- UL-EU Approval

## Packaging

PROMASEAL® Acrylic Sealant is supplied in liquid form contained within 310ml tubes, other packaging on demand.

## Storage requirements

- Store in cool and dry conditions - 3°C to 40°C
- Shelf life for original sealed containers is at least 18 months
- Once opened the container should be used swiftly

## Safety instructions

- Please refer to the safety data sheet for additional advice



## Technical data and properties

<b>Colour</b>	white/grey (others on request)
<b>Consistency</b>	paste
<b>Specific gravity</b>	1.52 -1.62 g.cm <sup>3</sup>
<b>Shrinkage</b>	Approx. 12 %
<b>Movement capabilities</b>	Flexible upto 7.5 %
<b>Application temperature</b>	+5 to +40°C
<b>Acoustic isolation (EN 10140)</b>	48 dB
<b>Air permeability (EN 1026 )</b>	600 pa- 100pa (0.0/0.0 m <sup>3</sup> /h/m <sup>2</sup> )

## Application instructions

- For good adhesion the surfaces of the building elements shall be free of any dust or grease and may need to be primed. On good clean, virgin concrete & masonry, no priming required.
- Ensure that the aperture and services in question are tested with PROMASEAL® Acrylic Sealant and the site conditions are within the application specification.
- An annular space needs to be present around the service to apply sufficient installation depth.
- All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to be at +5°C or above at time of installation.
- The PROMASEAL® Acrylic Sealant is either gunned or trowelled into the aperture in or between the separating element/elements to a specific depth utilising various backing materials.
- Upon installation make sure that you install the PROMASEAL® Acrylic Sealant around all services needed.
- Once compacted, smooth off the PROMASEAL® Acrylic Sealant to produce a professional finish



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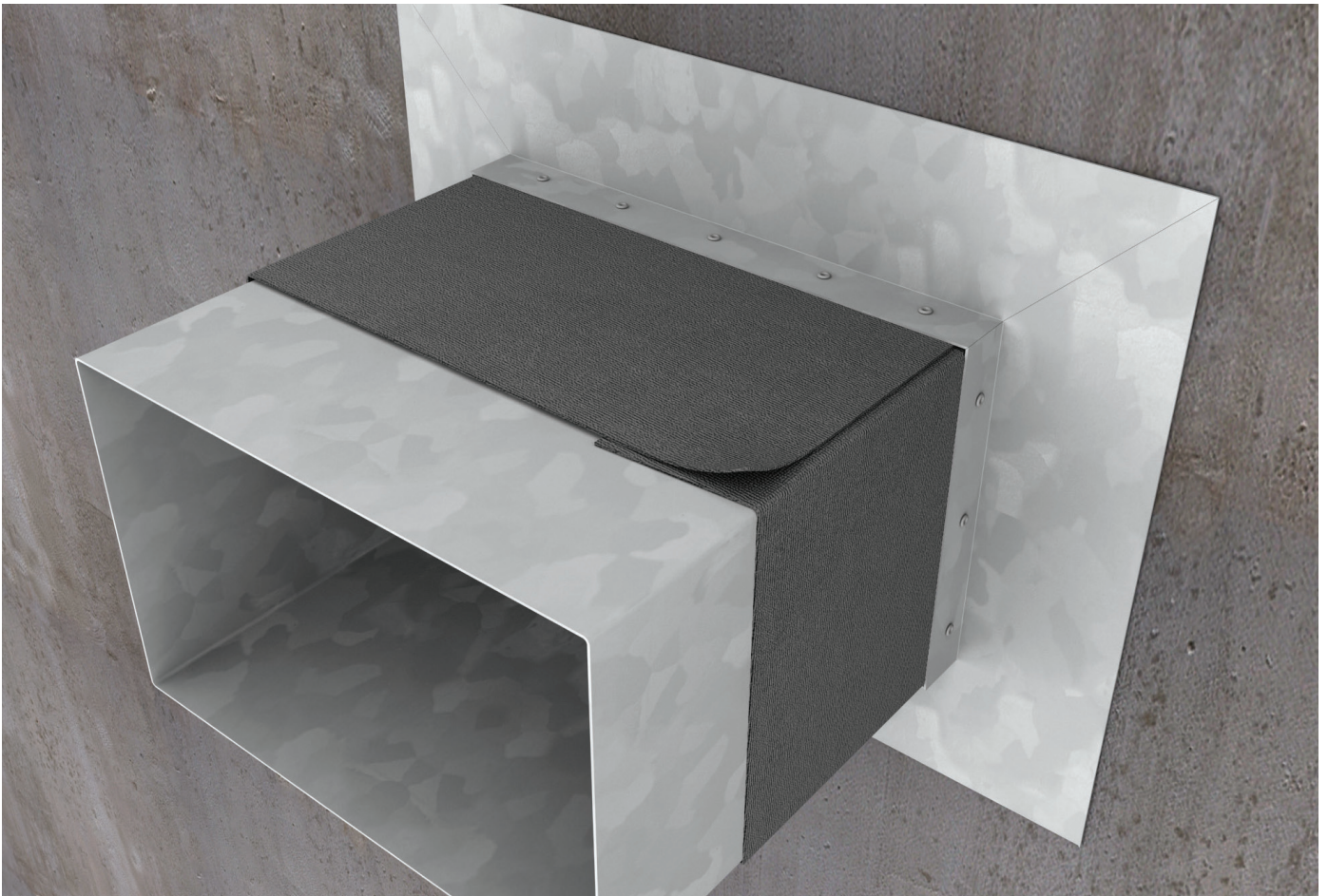
[www.promat-tunnel.com](http://www.promat-tunnel.com)

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## Promat®-BUTYL TAPE Product Data Sheet

### Sealing tape for fire resistant ducts



[www.promat-international.com](http://www.promat-international.com)





## SPECIFICATION

<b>Colours</b>	Grey. Other colours are by request depending on quantity.
<b>Dimensions</b>	15mm x 3mm, in rolls 15m long. Other sizes are available on request, depending on quantity.
<b>Packaging</b>	The tape is sold in boxes of 20 rolls, each 15m long
<b>Shelf Life</b>	24 months in ambient conditions
<b>Life Expectancy</b>	In excess of 25 years
<b>U.V. Resistance</b>	Excellent
<b>Service Temperature Range</b>	-40°C to +90°C
<b>Joint Movement Range</b>	Up to 15%
<b>Compatibility</b>	Very good adhesion to most surfaces and compatible with most commonly used construction materials.
<b>Dynamic tensile tension: Separation rate 100mm/min @ 20°C</b>	24N/cm <sup>2</sup> to standard 180 grit stainless steel
<b>Dynamic shear: Separation rate 200mm/min @ 20°C</b>	22N/cm <sup>2</sup> to standard 180 grit stainless steel
<b>Moisture vapour transmission rate : independently tested to BS 15106-3</b>	0.025g/m <sup>2</sup> /24hr/mm at 25°C & 75% RH

For further information please contact our technical department.

## Description

Promat®-BUTYL TAPE is a preformed, high performance, polyisobutylene (PIB) based sealing tape used to seal flanged joints in fire-resisting Promat®-WRAP Fire Duct systems against air and water ingress. The product is cost effective, non-toxic and requires no tools to apply.

## Areas of Use

Sealing flange joints in Promat®-WRAP Fire Duct Systems (e.g. Promat®-WRAP 60, Promat®-WRAP 120, Promat®-WRAP 240).

## Advantages

- Approved for use with Promat®-WRAP Fire Ducts
- Self-wound roll presentation
- Solvent-free formulation
- Instant seal
- Direct control over quantity of sealant used in the joint
- Environmentally friendly
- Ease of use
- Good adhesion on both faces to most building materials
- High pumping resistance

## Installation

Promat®-BUTYL TAPE should be applied to surfaces at a temperature range of between +4°C and +40°C. For best performance, the surfaces should be clean, dry, and grease free. The product should be unwound and lightly pressed into position leaving the outer release paper in place. On forming the joint, the release paper is removed and the closing surface pushed firmly in place, pressure applied along the length of the joint and mechanically fixed.

When sealing the flanged joints in a four-side rectangular duct one normally uses a continuous length of tape with an overlapped joint located about 50mm from a corner. The tape ends should only overlap about 10mm at the joint.

Further advice is available from Promat Technical Support..

## Storage

Promat®-BUTYL TAPE may not be affected by an outdoor environment. However, for long term storage and ease of installation, it is recommended that it should be stored indoors ideally in cool, dry, frost-free conditions above +4°C and below +30°C (best between +5°C and +20°C). Shelf life is 24 months from date of manufacture..

## Health & Safety

For health and safety advice refer to the relevant MSDS sheet available from Promat.



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