

INTU FR COAT A

Fire rated ablative coat

TDS Technical Data Sheet



CE

INTUSEAL®
passive fire protection manufacturer



EOTA

www.intuseal.com

INTU FR COAT A

Fire rated ablative coat

TDS Technical Data Sheet

.INTUSEAL®
passive fire protection manufacturer

→ PRODUCT DESCRIPTION

The firestop ablative paint **INTU FR COAT A** is a one-component product designed for sealing fire protection penetrations and expansion joints with fire resistance class up to **EI 240**. Under fire conditions and the influence of high temperature, endothermic reactions take place in the product. The paint absorbs heat to a large extent, delaying the impact of fire on structural elements.



→ APPLICATION

The fire rated ablative coat **INTU FR COAT A** is designed for fire protection of: penetration seals with single or group of non-flammable pipes in floors or walls, expansion joints in floors or walls, electric cables in walls (combined with paint **INTU FR COAT I**).

Flexible wall:	The wall must be minimum thickness 125 mm. Must have a steel profile structure covered on both sides with minimum 2 layers of boards with minimum thickness 12,5 mm.
Rigid wall:	The wall must be minimum thickness 150 mm. Must have concrete, cellular concrete or masonry structure, with minimum density 600 kg/m ³ .
Rigid floor:	The floor must be minimum thickness 150 mm. Must have concrete, cellular concrete or masonry structure, with minimum density 1700 kg/m ³ .



→ AVAILABILITY

Contents	Colour	Packaging	Pallet	Article number
3 kg	White	Pail	147	INCA3KG
12,5 kg		Pail	48	INCA125KG
260 kg		Barrel	2	INCA260KG

→ INSTALLATION METHOD

- 1) Clean the surface of the hole and system components from grease and other contaminants thoroughly.
- 2) Mix the paint thoroughly before use. The paint does not require dilution, but if necessary, water can be added.
- 3) Cut the mineral wool board to the correct size and place the wool board in the hole/gap, next use **INTU FR COAT A** to paint mineral wool board.
- 4) Fill all gaps between services – mineral board or partition – mineral board with **INTU FR MASTIC**.
- 5) Use **INTU FR COAT A** ablative paint to make an overlap on the partition and on the mineral wool lamella placed on the metal pipe.

Approximate consumption of **INTU FR COAT A**: ~1,6 ÷ 1,7 kg/m² – for a dry film thickness of 1,0 mm.

Approximate drying time: ~60 min (dry to the touch), ~360 min (complete dry).

→ COMPLIANCE

- European Technical Assessment:
Penetration seals: **ETA 19/0038 of 28/06/2019**
Linear joints: **ETA 19/0037 of 28/06/2019**
- Declaration of Performance:
Penetration seals: **DoP 5/2019**
Linear joints: **DoP 7/2024**
- Certificate of Constancy of Performance
Penetration seals: **1488-CPR-0756/W**
Linear joints: **1488-CPR-0763/W**



→ TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 35°C. Shelf life 12 months from the production date shown on the packaging.

→ TECHNICAL DATA for metal pipes penetration seals

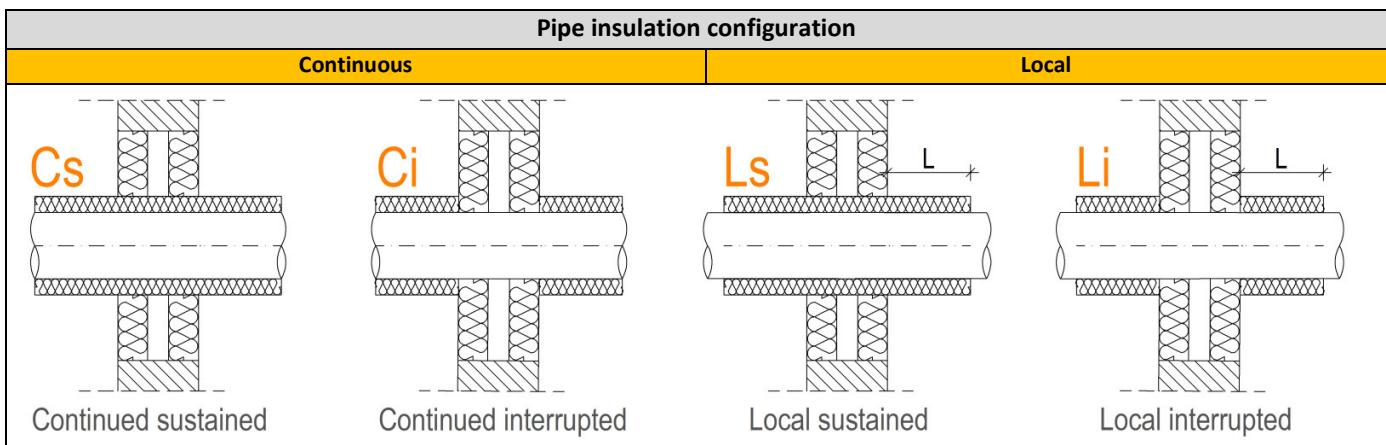


Table 1. Parameters for penetration seal of non-flammable pipes in RIGID WALL (partition filling: 2 x mineral wool board)

Type of penetrating element						Partition: RIGID WALL with thickness A ≥ 150 mm			
Pipe		Pipe insulation				Partition filling	Fire resistance classification C/U and C/C		
Pipe material	Pipe diameter (mm)	Pipe wall thickness (mm)	Insulation length - L (mm)	Insulation thickness - g (mm)	Insulation config				
STEEL	Ø ≤ 42,4	2,0 – 14,2	L ≥ 250	≥ 30	Cs, Ci, Ls, Li	50 x 0,6	EI 120		
	42,4 < Ø ≤ 48,3	2,2 – 14,2	L ≥ 250	≥ 30					
	48,3 < Ø ≤ 60,3	2,6 – 14,2	L ≥ 250	≥ 50					
	60,3 < Ø ≤ 76,1	3,1 – 14,2	L ≥ 250	≥ 50					
	76,1 < Ø ≤ 88,9	3,5 – 14,2	L ≥ 250	≥ 50					
	88,9 < Ø ≤ 108,0	4,0 – 14,2	L ≥ 250	≥ 50					
	108,0 < Ø ≤ 159,0	4,0 – 14,2	L ≥ 650	≥ 50					
	159,0 < Ø ≤ 219,0	4,5 – 14,2	L ≥ 650	≥ 50					
COPPER	Ø ≤ 6,0	≥ 0,8	L ≥ 500	≥ 30	Cs, Ci, Ls, Li	50 x 0,6	EI 120		
	6,0 < Ø ≤ 22,0	≥ 1,0	L ≥ 700	≥ 50	Cs, Ls				
	22,0 < Ø ≤ 35,0	1,3 – 14,2	L ≥ 700	≥ 50					
	35,0 < Ø ≤ 42,0	1,5 – 14,2	L ≥ 700	≥ 50					
	42,0 < Ø ≤ 54,0	1,7 – 14,2	L ≥ 700	≥ 50					
	54,0 < Ø ≤ 88,9	2,2 – 14,2	L ≥ 700	≥ 50					

INTU FR COAT A

Fire rated ablative coat

TDS Technical Data Sheet

INTUSEAL®
passive fire protection manufacturer

Table 2. Parameters for penetration seal of non-flammable pipes in RIGID FLOOR (partition filing: 2 x mineral wool board)

Type of penetrating element					Partition: RIGID FLOOR with thickness A ≥ 150 mm			
Pipe		Pipe insulation			Partition filling	Fire resistance classification C/U and C/C		
MINERAL WOOL INSULATED METAL PIPES Density of mineral wool on pipes ρ ≥ 37 kg / m³		Pipe wall thickness (mm)	Insulation length - L (mm)	Insula tion thick - g (mm)	Min. insulation painting with INTU FR COAT A length x thickness (mm)	Pipe insulation configuration		
Pipe material	Pipe diameter (mm)					Cs, Ls	Ci, Li	
STEEL	Ø ≤ 42,4	2,0 – 14,2	L ≥ 250	≥ 30	50 x 0,6	2 x mineral wool board (ρ ≥ 150kg/m³) thickness ≥ 60 mm coated on one side with 1 mm of INTU FR COAT A or INTU FR BOARD A	EI 180	EI 240
	42,4 < Ø ≤ 48,3	2,2 – 14,2	L ≥ 250	≥ 50		EI 120	EI 120	
	48,3 < Ø ≤ 60,3	2,6 – 14,2	L ≥ 250	≥ 50				
	60,3 < Ø ≤ 76,1	3,1 – 14,2	L ≥ 250	≥ 50				
	76,1 < Ø ≤ 88,9	3,5 – 14,2	L ≥ 250	≥ 50				
	88,9 < Ø ≤ 108,0	4,0 – 14,2	L ≥ 250	≥ 50				
	108,0 < Ø ≤ 159,0	4,0 – 14,2	L ≥ 650	≥ 50				
	159,0 < Ø ≤ 219,0	4,5 – 14,2	L ≥ 650	≥ 50				
COPPER	Ø ≤ 6,0	≥ 0,8	L ≥ 500	≥ 30	50 x 0,6	2 x mineral wool board (ρ ≥ 150kg/m³) thickness ≥ 60 mm coated on one side with 1 mm of INTU FR COAT A or INTU FR BOARD A	EI 240	EI 240
	6,0 < Ø ≤ 22,0	≥ 1,0	L ≥ 500	≥ 30		EI 180	EI 60	
	22,0 < Ø ≤ 35,0	1,3 – 14,2	L ≥ 500	≥ 30				
	35,0 < Ø ≤ 42,0	1,5 – 14,2	L ≥ 500	≥ 30				
	42,0 < Ø ≤ 54,0	1,7 – 14,2	L ≥ 500	≥ 30				
	54,0 < Ø ≤ 88,9	2,2 – 14,2	L ≥ 700	≥ 50				

Table 3. Parameters for penetration seal of non-flammable pipes in RIGID FLOOR (partition filing: 1 x mineral wool board)

Type of penetrating element					Partition: RIGID WALL with thickness A ≥ 150 mm			
Pipe		Pipe insulation			Partition filling installed on the floor bottom	Fire resistance classification C/U and C/C		
MINERAL WOOL INSULATED METAL PIPES Density of mineral wool on pipes ρ ≥ 37 kg / m³		Pipe wall thickness (mm)	Insulation length - L (mm)	Insulation thickness - g (mm)	Min. insulation painting with INTU FR COAT A length x thickness (mm)			
Pipe material	Pipe diameter (mm)							
STEEL	Ø ≤ 42,4	2,0 – 14,2	L ≥ 250	≥ 30	Cs, Ls	1 x mineral wool board (ρ ≥ 150kg/m³) thickness ≥ 60 mm coated on one side with 1 mm of INTU FR COAT A or INTU FR BOARD A	EI 90	
	42,4 < Ø ≤ 48,3	2,2 – 14,2	L ≥ 250	≥ 50		EI 60		
	48,3 < Ø ≤ 60,3	2,6 – 14,2	L ≥ 250	≥ 50				
	60,3 < Ø ≤ 76,1	3,1 – 14,2	L ≥ 250	≥ 50				
	76,1 < Ø ≤ 88,9	3,5 – 14,2	L ≥ 250	≥ 50				
	88,9 < Ø ≤ 108,0	4,0 – 14,2	L ≥ 250	≥ 50				

INTU FR COAT A

Fire rated ablative coat

TDS Technical Data Sheet

INTUSEAL®
passive fire protection manufacturer

► SOLUTION DETAILS for metal pipes penetration seals

NON-FLAMMABLE PIPES (continuous insulation)

Fig. 1. Wall penetration $A \geq 150\text{mm}$

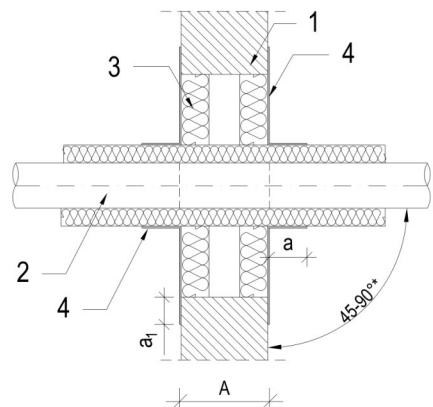
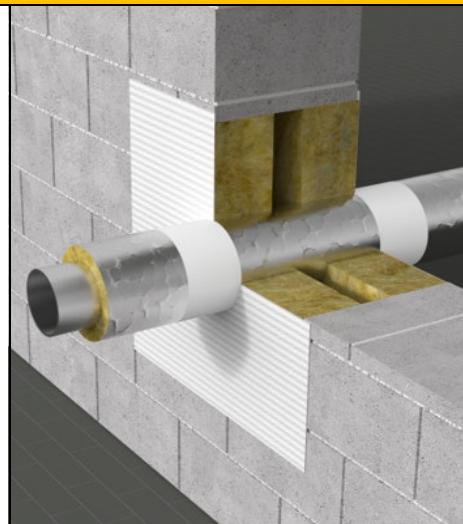
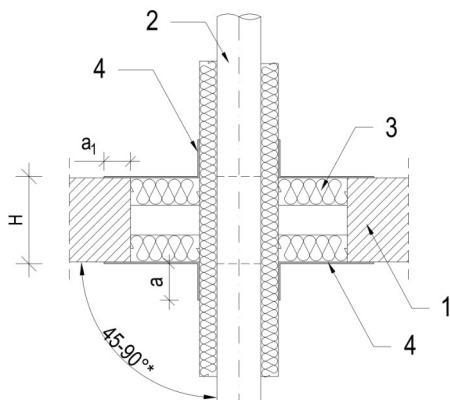


Fig. 2. Floor penetration $H \geq 150\text{mm}$



1 – rigid wall or rigid floor

2 – non-flammable pipe

3 – mineral wool board with minimum thickness 60 mm and density $\rho \geq 150 \text{ kg/m}^3$, coated **INTU FR COAT A** with 1mm dry layer thickness (or ready painted **INTU FR BOARD A**)

4 – mineral wool insulation, density $\rho \geq 37 \text{ kg/m}^3$, length L and thickness g according to Technical Data

5 – **INTU FR COAT A** ablative paint, partition overlap $a_1 \geq 10 \text{ mm}$; mineral wool insulation overlap $a \geq 50 \text{ mm}$

* Installations angled 45 ÷ 90° to the partition, based on PN-EN 1366-3 standard

NON-FLAMMABLE PIPES (non-continuous insulation)

Fig. 3. Wall penetration $A \geq 150\text{mm}$

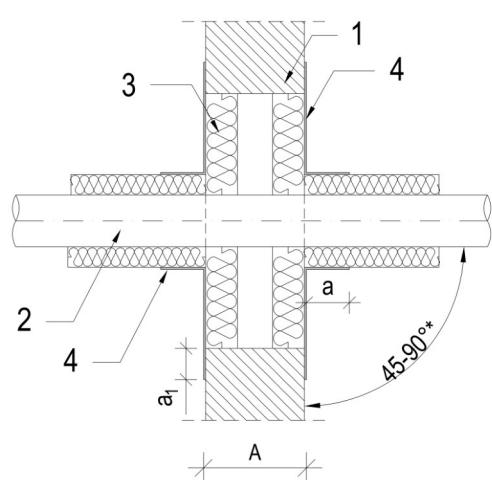
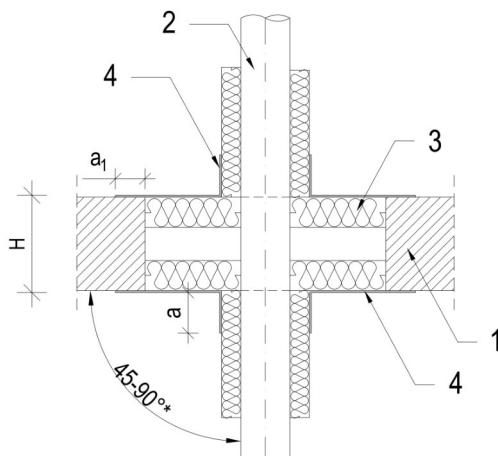


Fig. 4. Floor penetration $A \geq 150\text{mm}$



1 – rigid wall or rigid floor

2 – non-flammable pipe

3 – mineral wool board with minimum thickness 60 mm and density $\rho \geq 150 \text{ kg/m}^3$, coated **INTU FR COAT A** with 1mm dry layer thickness (or ready painted **INTU FR BOARD A**)

4 – mineral wool insulation with density $\rho \geq 37 \text{ kg/m}^3$, length L and thickness g according to Technical Data

* Installations angled 45 ÷ 90° to the partition, based on PN-EN 1366-3 standard

INTU FR COAT A

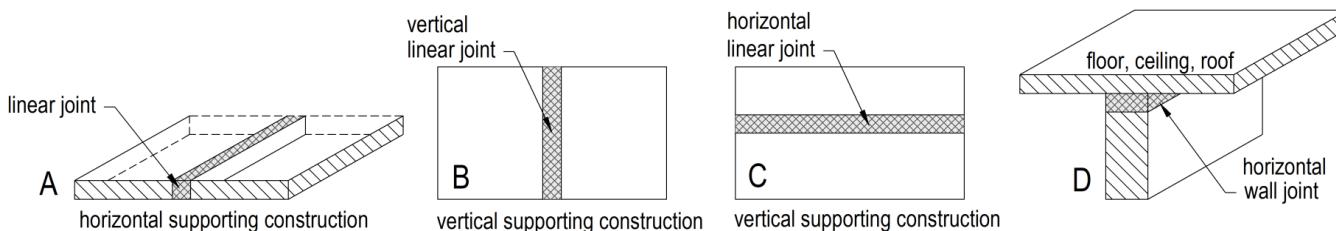
Fire rated ablative coat

TDS Technical Data Sheet

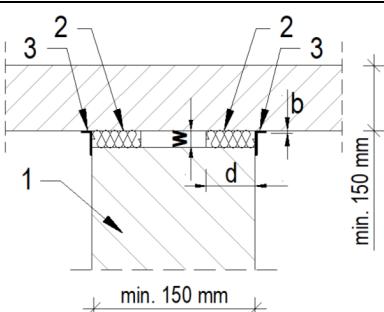
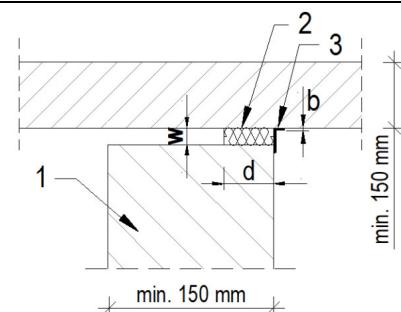
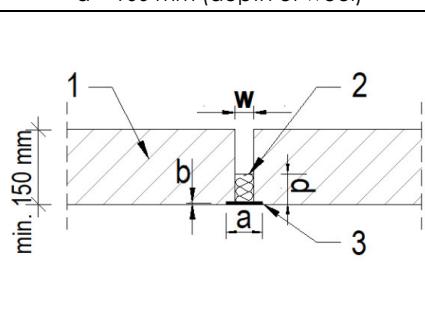
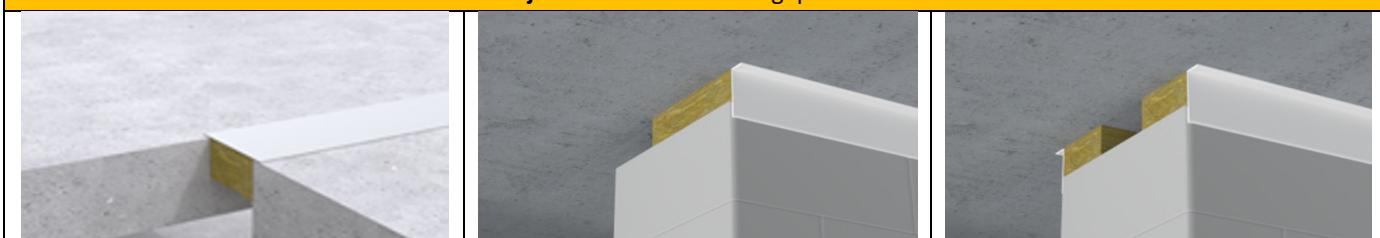
INTUSEAL®
passive fire protection manufacturer

► TECHNICAL DATA for linear joints

Possible orientation of linear joints seals



Fire resistance for linear joints in RIGID FLOOR gap with total width $w \leq 100$ mm



EI120

Wool from any side of the partition

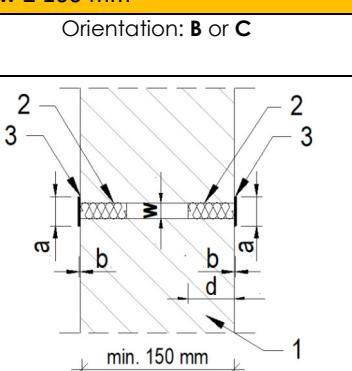
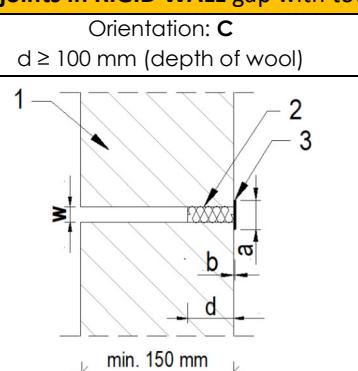
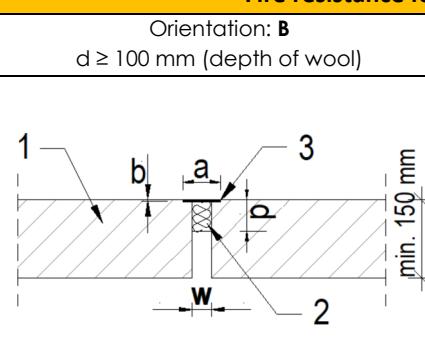
EI120 - EI240

Wool from any side of the partition

EI120

d ≥ 50 mm (depth of wool)

Fire resistance for linear joints in RIGID WALL gap with total width $w \leq 100$ mm



Vertical: EI 120 - EI240

Wool from any side of the partition

Horizontal: EI120 - EI180

Wool from any side of the partition

EI 120

1 – wall / floor with thickness ≥ 150 mm; gap with total width $w \leq 100$ mm;

2 – INTU FR BOARD A and/or mineral wool with density $\rho \geq 150 \text{ kg/m}^3$, min. depth 100 mm (coated on one side with INTU FR COAT A, with 1mm dry film thickness);

3 – coating of INTU FR COAT A on the mineral wool and wall (on one side of the wall):

- length $a \geq W + 2 \times 5 \text{ mm}$ (the wall is covered on the width of at least 5 mm from the both edges of linear joint)
- thickness $b \geq 1,0 \text{ mm}$ (on the mineral wool) or $b \geq 0,6 \text{ mm}$ on the wall