TDS Technical Data Sheet





CE

www.intuseal.com

INTU FR COAT I THE INTUSEAD

INTU FR COAT I Fire rated intumescent coat **TDS Technical Data Sheet**



INTU FR COAT I is a one-component intumescent paint designed for sealing fire protection penetrations with non-flammable pipes and electric cables. The coating made with this paint swells under the influence of temperature, creating a protective layer on the protected surface. The paint protects the system elements in penetrations up to fire resistance class of El 240. (details according to reference documents)

APPLICATION

INTU FR COAT I is intended for the protection of non-flammable pipes in fire partition floors and walls and electric cables / cable trays in wall.

Flexible walls:

The wall must be at least 125mm thick and have a steel profile structure covered on both sides with a minimum of 2 layers of boards with a

thickness of 12.5mm.

Rigid walls:

The wall must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 600kg/m³

Rigid floors:

The floor must be at least 150mm thick and have concrete, cellular concrete structure or masonry structure, with a minimum density of 1700kg/m³.

INSTALLATION METHOD

- 1. Prior to sealing, clean the surfaces of the hole and system components from grease and other contaminants thoroughly.
- 2. Mix the paint well before use. The paint does not require thinning but you can add a water.
- 3. The space around the pipe should be filled with cement mortar or mineral wool, the space around cable/cable trays should be filled mineral board INTU FR BOARD A (or mineral wool board density INTU FR COAT A) flush with the face of the partition.
- 4. Cover the pipe with INTU FR COAT I with a layer of appropriate thickness and length according to Table 1.
- 5. Cover the hole filling (mineral wool/cement mortar) with INTU FR COAT A ablative paint, overlapping the surface of the partition according to Table 1.

Approximate consumption of INTU FR COAT I - 1,5 kg/m² - for a dry film thickness of 1mm.

AVAILABILITY

ТҮРЕ	Art. No.
2,5 kg	INCI25KG
10 kg	INCI10KG

TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 25°C. Shelf life 12 months from the production date shown on the packaging.

COMPLIANCE

- Reference standard: EN 1366-3 / ETAG 026-2 / EAD 350454-00-1104
- DoP 5/2019
- ETA 19/0038
- CoC 1488-CPR-0756/W
- TDS
- SDS

INTUSEAL Sp. z o.o. Ul. Kineskopowa 1, 05-500 Piaseczno, Poland E-mail: sales@intuseal.com

www.intuseal.com

INTU FR COAT I | TDS | PK 3.1 | 2

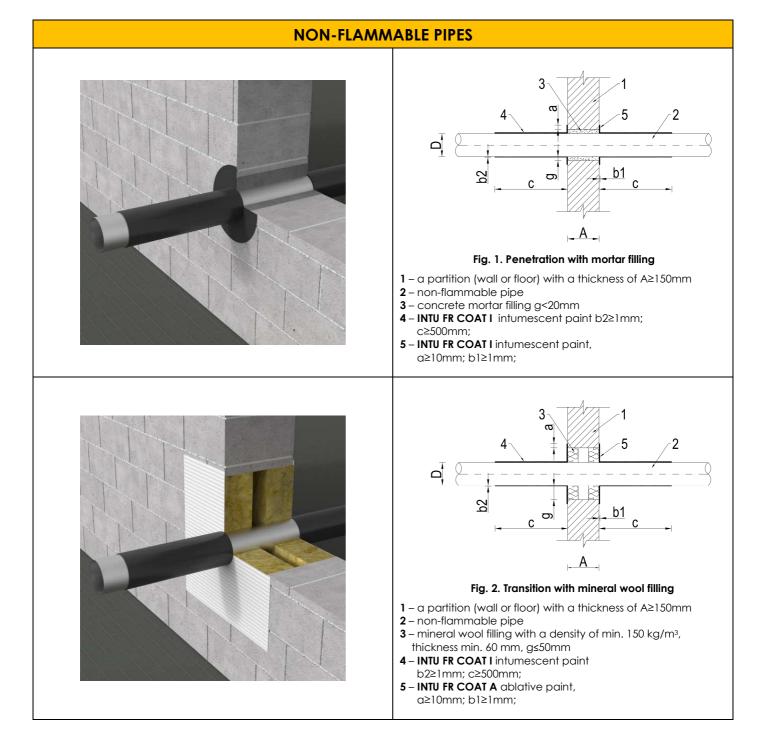




TDS Technical Data Sheet



SOLUTION DETAILS



INTUSEAL Sp. z o.o. UI. Kineskopowa 1, 05-500 Piaseczno, Poland E-mail: <u>sales@intuseal.com</u>

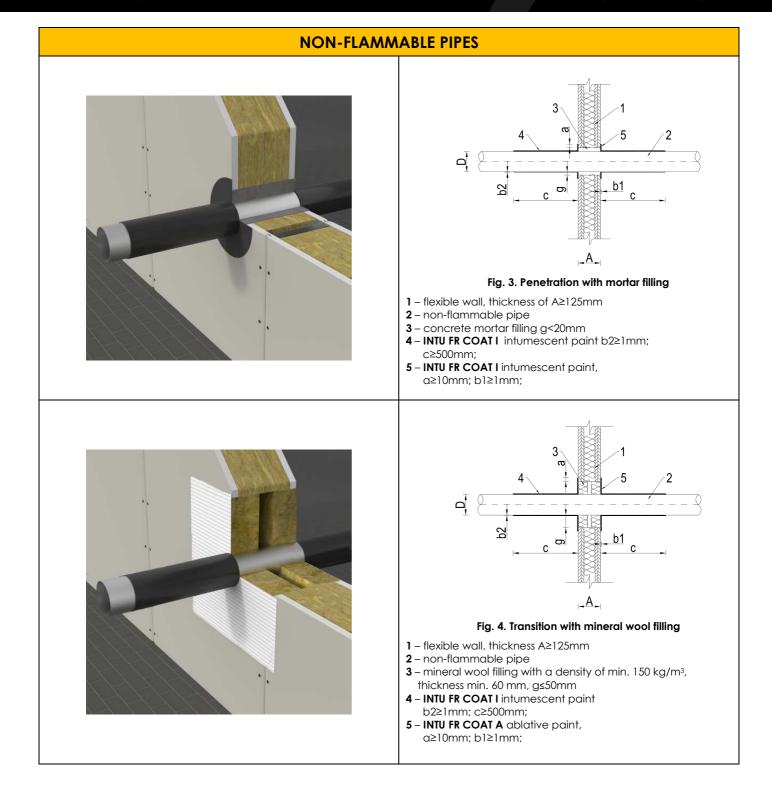
VIES: PL5223031827

INTU FR COAT I | TDS | PK 3.1 | 3

www.intuseal.com

TDS Technical Data Sheet

INTUSEAL passive fire protection manufacturer



INTUSEAL Sp. z o.o. Ul. Kineskopowa 1, 05-500 Piaseczno, Poland E-mail: <u>sales@intuseal.com</u> INTU FR COAT I | TDS | PK 3.1 | 4

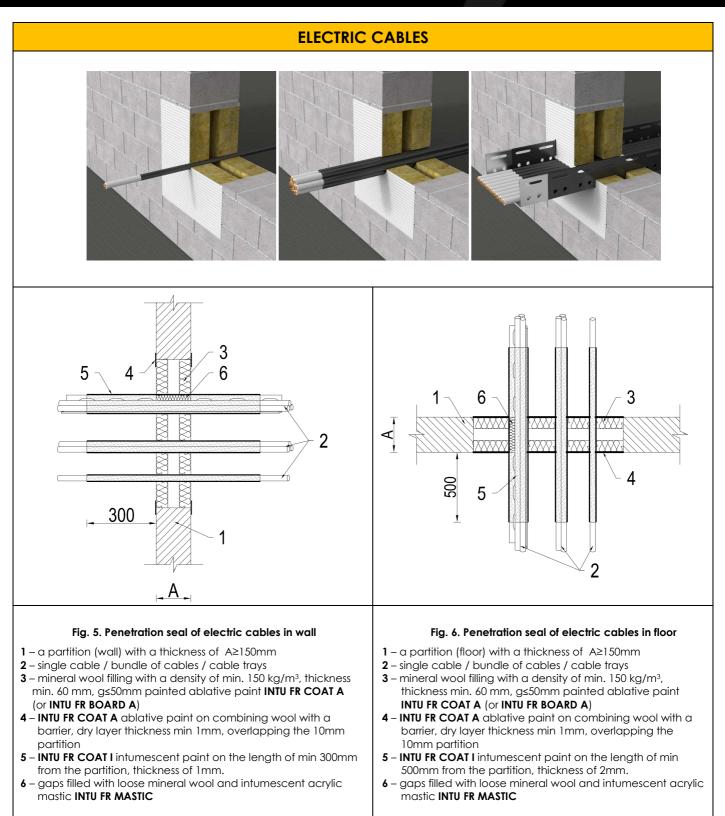
www.intuseal.com

VIES: PL5223031827

rire ratea intumescent co

TDS Technical Data Sheet





VIES: PL5223031827

INTU FR COAT I | TDS | PK 3.1 | 5

www.intuseal.com



Table 1. Parameters for protection of non-flammable pipes

	Hole	Diameter	Material	Filling	Coating thickness x length [b2 x c]
	Larger than the diameter of the pipe by 2x50mm	≤ 42,4 mm	steel		1mm x 500mm
		≤ 108,0 mm*	steel	Mineral wool with	1 mm x 500mm
STEEL PIPES		≤ 159,0 mm*	steel	a density of min. 150 kg/m³	2mm x 500mm
SIEEL FIFES	Dy 2XJUIIIII	≤ 219,0 mm*	steel	kg/m	2mm x 500mm
		≤ 42,4 mm	≤ 42,4 mm steel	1 mm x 500mm	
	Larger than the diameter of the pipe by 2x20mm	≤ 108,0 mm	steel		1 mm x 500mm
		≤ 159,0 mm	steel	Concrete mortar	2mm x 500mm
		≤ 219,0 mm	steel		2mm x 500mm

*pipe is also painted inside the partition

	Hole	Diameter	Material	Filling	Coating thickness x length [b2 x c]
	Larger than the diameter of the pipe by $2x50mm$ $\leq 6,0 \text{ mm}$ copper copperMineral wool with a 	1mm x 500mm			
		1mm x 500mm			
COFFER FIFES		1mm x 500mm			
			1 mm x 500mm		
		≤ 54,0 mm	copper	Concrete mortar	1mm x 500mm
		≤ 88,9 mm	copper		1 mm x 500mm

	Filling	Intumescent paint
ELECTRIC CABLES (SINGLE / IN BUNDLE / IN CABLE TRAYS)	Mineral wool with a density of min. 150kg / m³, 60mm thickness, painted with INTU FR COAT A ablative paint (or INTU FR BOARD A) on both sides of the wall	Thickness min 1mm Length 300 mm from the partition

FIRE RESISTANCE CLASSIFICATION

	Filling	DN	El Flexible wall	El Wall	El Floor
	Mineral wool with a density of min. 150 kg/m³	≤ 42,4 mm	EI 120	EI 180	El 240
		≤ 108,0 mm	EI 120	EI 120	EI 120
		≤ 159,0 mm	-	EI 60	EI 180
STEEL PIPES		≤ 219,0 mm	-	-	EI 90
	Concrete mortar	≤ 42,4 mm	EI 90	EI 240	EI 240
		≤ 108,0 mm	EI 60	EI 240	EI 180
		≤ 159,0 mm	-	EI 60	EI 120
		≤ 219,0 mm	-	EI 60	EI 90
Minerc COOPER PIPES		≤ 6,0 mm	-	EI 120	EI 240
	Mineral wool with a density of min. 150 kg/m ³	≤ 54,0 mm	-	EI 90	EI 240
		≤ 88,9 mm	-	-	EI 180
	Concrete mortar	≤ 6,0 mm	-	EI 120	EI 240
		≤ 54,0 mm	-	EI 120	EI 180
		≤ 88,9 mm	-	-	EI 120

	Type of installation	Diameter	El Wall	El Floor
ELECTRIC CABLES (also IN TRAYS)	Single cable	Ø ≤21mm	EI 120	EI 120*
	Single cable	Ø ≤80mm	EI 120	-
	Bundle of cables (made of single cable Ø ≤21mm)	Ø ≤ 100mm	EI 120	El 120*

* outside ETA, the results acc. to fire test report

VIES: PL5223031827

INTU FR COAT I | TDS | PK 3.1 | 6

www.intuseal.com