# INTU FR UNICOAT Fire rated intumescent coat

**TDS Technical Data Sheet** 



(EPA



# INTU FR UNICOAT Fire rated intumescent coat **TDS Technical Data Sheet**

# PRODUCT DESCRIPTION

The firestop system INTU FR UNICOAT is consisting of firestop paint (INTU FR UNICOAT P) with mineral wool. Is designed to protect penetrations of nonflammable pipes, cables, optical fibre. The cover layer that the paint creates, swells under the influence of temperature, forming a protective barrier on the surface of the mineral wool board that needs to be sealed. The coating protects service installations running through the partition up to fire resistance max. El 120 (details according to referential documents).

# APPLICATION

The INTU FR UNICOAT P paint is designed to protect non-flammable pipes in floors and compartment walls. It is suitable for electrical single or multiplied cables, fibre optics, in trays or cable ladder racks or without them walls. Maximum opening in wall: 600 x 600 mm, in floor: 1000 x 625 mm (W x H).

## Flexible walls:

The wall must be minimum thickness: 100 mm with a frame structure of steel or wooden sections covered on both sides with minimum of 2 layers of panels with thickness min 12,5 mm.

## **Rigid walls:**

The wall must be minimum thickness: 100 mm. Must be made of concrete, reinforced concrete, concrete blocks, cellular concrete, ceramic brick (solid, hollow or lattice) or silicate brick (solid or hollow) with minimum density 600 kg/m<sup>3</sup>.

### **Rigid floors:**

The floor must be minimum thickness: 150 mm. Must be made of concrete, reinforced concrete or cellular concrete with minimum density: 550 kg/m<sup>3</sup>.

### **DRYING TIME**

Paint condition	Dry to the touch	Complete dry/total hardened		
Time	80 min	330 min		
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\* Test was made for paint 1mm thickness. Environmental conditions (humidity and temperature) have impact on drying time.

# AVAILABILITY

Product	Contents	Color	Packaging	Pallet	Article no.
INTU FR	3 kg		pail	147	INUP3KG
UNICOAT P	12 kg	white	pail	48	INUP12KG

Product	Thickness	Dimensio	Pallet	Article no.	
INTU FR UNIBOARD 1S	50 mm	1200x600	38/76	INUB501SI	
INTU FR UNIBOARD 2S	50 mm	1200x600	38/76	INUB502SI	

\* 1S – board factory painted on one side, one dry film thickness: 0,5mm

2S - board factory painted on two sides, one dry film thickness: 0,5mm





# COMPLIANCE

- Reference standard: EN 1366-3 / EAD 350454-00-1104
- TDS

# TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between +5°C to +25°C.

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# INSTALLATION METHOD

### 1. PREPARATION

Clean the surfaces of the opening and the installations of grease and other contaminants before the protection is performed. Fill the space in penetration with mineral wool painted with INTU FR UNICOAT P or painted ready to use board INTU FR UNIBOARD



Mix the paint well before use to a homogeneous consistency. The paint does not require dilution. Cover the pipe and cables with INTU FR UNICOAT P with the appropriate thickness to obtain demanded dry film thickness and length, according to the table of parameters for the protection of non-flammable pipes or cables.

# 3. FINISH

Penetration seal is ready. Complete declaration and paste it next to the penetration.





# FIRE RESISTANCE CLASSIFICATION

NON-COMBUSTIBLE pipes in rigid walls min 100mm thick with INTU FR UNICOAT P coating						
Type of pipe	Diameter (mm)	Pipe wall thickness (mm)	Coating thickness x length (mm)	Filling of the opening El clo		
Steel	≤ Ø66,7	1,5 ÷ 14,2	1 x 500	Mineral wool + INTU FR MASTIC	El 60, E 120	
Steel	≤Ø114,3	3,6 ÷ 14,2	1 x 500	Mineral wool + INTU FR MASTIC	El 60, E 120	
Steel	≤Ø168,3	4 ÷ 14,2	1 x 500	Mineral wool + INTU FR MASTIC	El 60, E 120	
Copper	≤Ø54	2	1 x 500	Mineral wool + INTU FR MASTIC	EI 120	

CABLES AND CABLE TRAYS with 50mm thick mineral wool filling, painted on both sides 'with INTU FR UNICOAT P paint - any location in a partition

pannon					
Type of instalation	Max. gap dimension (mm)	El class - flexible / rigid	El class - floor		
Single cables Ø ≤ 21 mm or bundles Ø ≤100 mm		EI 60	EI 60, E 90		
Single cables with diameter $\emptyset \le 80$		EI 60	EI 60, E 90		
Steel cable trays (perforated and solid) and cable ladders racks	Wall: 600 x 600 Floor: 1000 x 625	EI 60	El 60, E 90		
Uncoated cables with diameter $\emptyset \le 24$ mm	1001. 1000 x 020	EI 60	EI 60, E 90		
Fiber optics		EI 60	EI 60, E 90		
Plastic installation tubes Ø ≤ 16 mm		EI 60			
CABLES AND CABLE TRAYS with 100mm thick mineral wool filling (2 x 50mm), wool painted on one side with INTU FR UNICOAT P – flush with the partition surface					
Type of instalation	Max. gap dimension (mm)	El class - flexible / rigid wall	El class - floor		
Single cables Ø ≤ 21 mm or bundles Ø ≤100 mm		EI 120	EI 120		
Single cables with diameter $\emptyset \le 80$		EI 90, E120	EI 120		
Steel cable trays (perforated and solid) and cable ladder racks	Wall: 600 x 600 Floor: 1000 x 625	EI 120	EI 120		
Uncoated cables with diameter $\emptyset \le 24$ mm	FIGOL 1000 x 825	EI 120	EI 120		
Fiber optics	]	EI 120	EI 120		
Plastic installation tubes $\emptyset \le 16$ mm		EI 120	-		

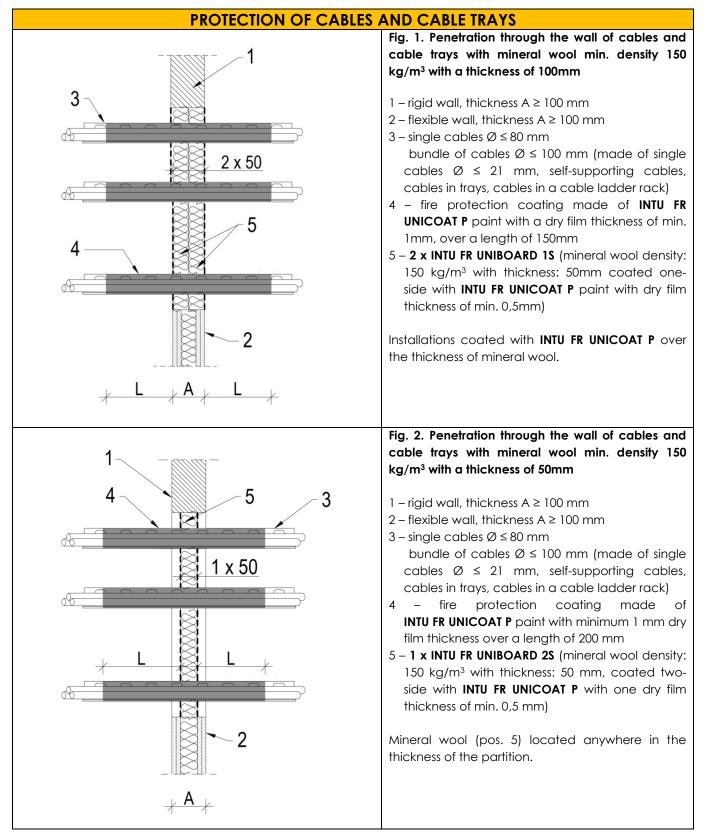
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# SOLUTION DETAILS



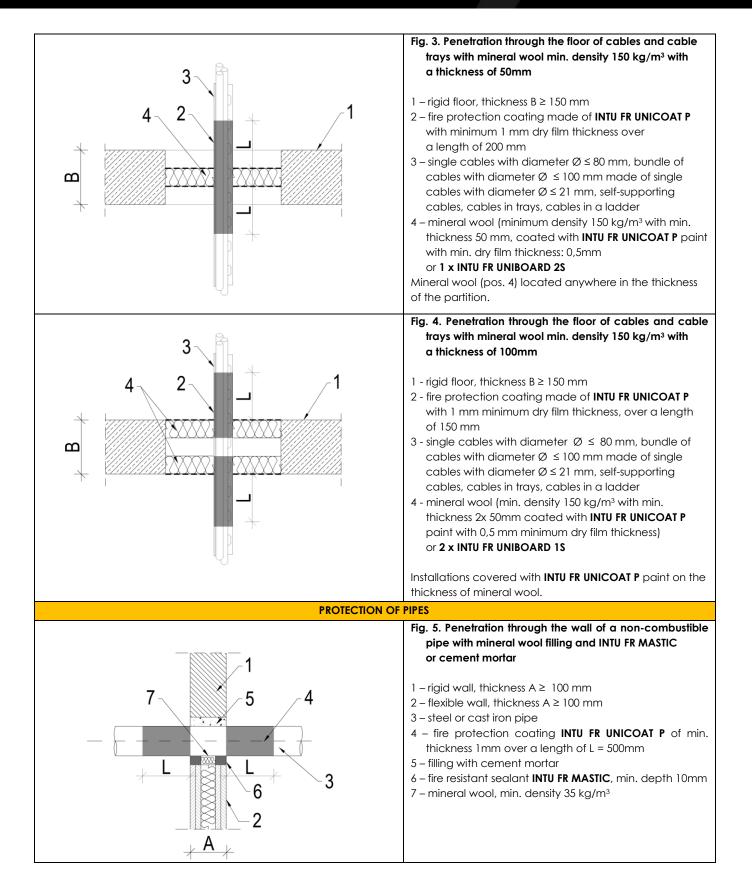
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# INTU FR UNICOAT

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# INTUSEAD passive fire protection manufacturer



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