

INTU FR MASTIC

Intumescent acrylic mastic

TDS TECHNICAL DATA SHEET



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→ PRODUCT DESCRIPTION

The **INTU FR MASTIC** is an acrylic mastic designed to prevent spreading of fire, smoke and gases through openings in fire rated walls and floors. **INTU FR MASTIC** expands when it is subjected to fire and close openings around pipes, cables and gaps, expansion joints by creating tight barrier for fire, smoke and gas. Mass effectively fills the gaps around the installation, ensuring the integrity and insulation of fire resistance class EI 120 and EI 240.

→ APPLICATION

The **INTU FR MASTIC** is designed for fire protection of penetrations with:

- non-flammable pipes in floors and walls
- single electric cables / bundle of cables in floors and walls
- installation / sealing of intumescent ventilation grilles **INTU FR GRILLE**



→ AVAILABILITY

Contents	Colour	Box	Pallet	Article number
310 ml	White	15	1260	INFRM310
310 ml	Grey	15	1260	INFRMG310
310 ml	Pure White	15	1260	INFRMPW310
600 ml	White	20	720	INFRM600
600 ml	Grey	20	720	INFRMG600
600 ml	Pure White	20	720	INFRMPW600
5 L	White	N/A	60	INFRMW5L
5 L	Grey	N/A	60	INFRMG5L

→ INSTALLATION METHOD

Clean the surfaces from grease and other contaminants before applying the mastic.

Place a mineral wool backfill in the hole.
Fill the gap with **INTU FR MASTIC** to the required depth.



→ COMPLIANCE

- Test standard:
EN 1366-3 / EAD 350454-00-1104
- European Technical Assessment:
ETA 19/0038 of 28/06/2019
- Declaration of Performance:
DoP 8/2019
- Certificate of Constancy of Performance
1488-CPR-0756/W



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→ TRANSPORT AND STORAGE

Store in dry and cool conditions at temperatures between + 5°C and + 35°C.

- Usefulness for 310 ml capacity:
24 months from the date of production placed on the package
- Usefulness for 600 ml and 5 l capacity:
18 months from the date of production placed on the package.

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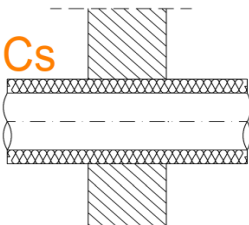
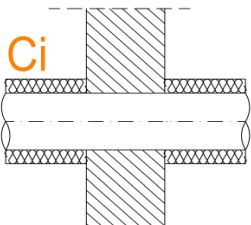
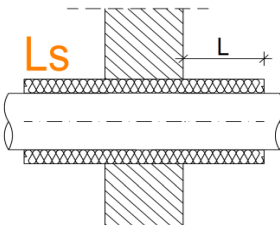
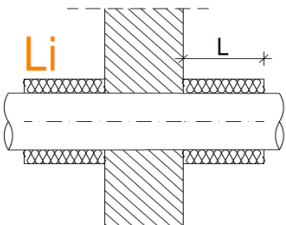
→ TECHNICAL DATA

Table. 1. DETAILS - NON FLAMMABLE PIPES

	Diameter [mm]	Filling	Mineral wool pipe insulation lamella (density ≥ 37 kg/m³) min. thick x length [mm]	INTU FR MASTIC minimum width x depth [mm]	INTU FR MASTIC consumption of a 310 ml tube
Steel / Cast Iron	≤ 42,4	Mineral wool; ρ ≥ 40 kg/m³ Depth: 15mm	30 x 250	10 x 15	0,20
	≤ 48,3		50 x 250		0,20
	≤ 60,3				0,25
	≤ 76,1				0,30
	≤ 88,9				0,35
	≤ 108,0				0,40
	< 159,0	Mineral wool; ρ ≥ 40 kg/m³ Depth: 20 mm	50 x 650	25 x 20	1,90
	≤ 219,1		50 x 650	25 x 20	2,50
Copper / Steel / Cast Iron	≤ 6,0	ρ ≥ 40 kg/m³ Depth: 20 mm	30 x 500	25 x 20	0,35
	≤ 54,0		30 x 500		0,90
	≤ 88,9		50 x 700		1,30

Recommended **INTU FR MASTIC** mass width: from 10 mm to maximum around 50 mm

→ FIRE RESISTANCE CLASSIFICATION

Pipe insulation configuration			
 Cs Continued sustained	 Ci Continued interrupted	 Ls Local sustained	 Li Local interrupted

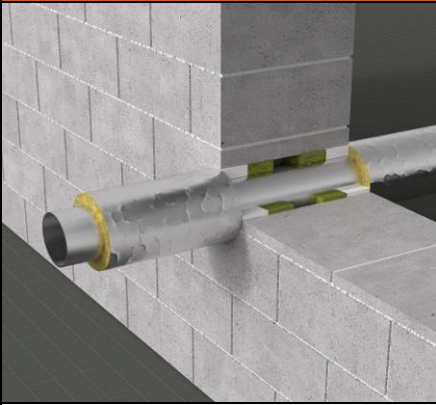
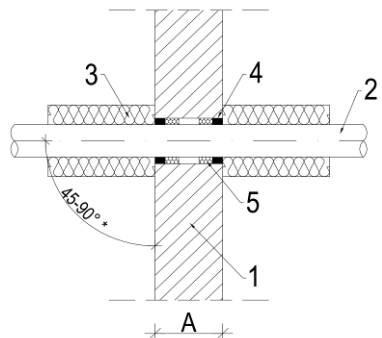
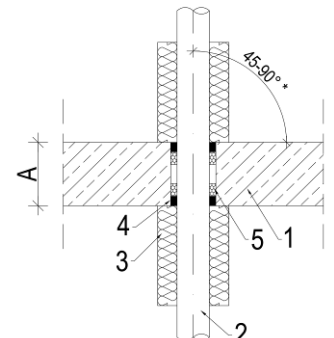
STEEL/ CAST IRON PIPES/ COPPER - penetration seals					
Diameter [mm]	Pipe wall thickness [mm]	WALL		FLOOR	
		C/C and C/U	Insulation configuration	C/C and C/U	Insulation configuration
$\varnothing D \leq 6,0$	$\geq 0,8$	EI 240	Ci or Li	EI 180	Ci or Li
$6,0 < D \leq 15,0$	$\geq 1,0$	EI 180		EI 90	
$15,0 < D \leq 18,0$	$\geq 1,1$	EI 180		EI 90	
$18,0 < D \leq 22,0$	$\geq 1,1$	EI 180		EI 90	
$22,0 < D \leq 35,0$	1,4 – 14,2	EI 180		EI 90	
$35,0 < D \leq 42,0$	1,5 – 14,2	EI 180		EI 90	
$42,0 < D \leq 54,0$	1,7 – 14,2	EI 180		EI 90	
$54,0 < D \leq 88,9$	2,2 – 14,2	EI 120		-	-

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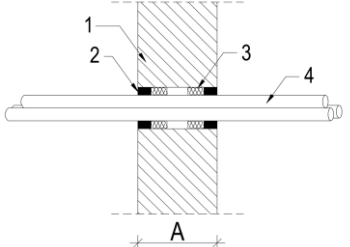
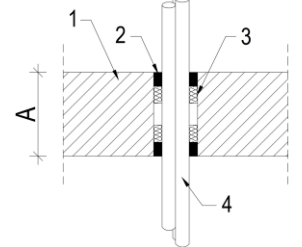
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STEEL / CAST IRON PIPES - penetration seals					
Diameter [mm]	Pipe wall thickness [mm]	WALL		FLOOR	
		C/C and C/U	Insulation configuration	C/C and C/U	Insulation configuration
$D \leq 42,4$	2,0 – 14,2	EI 240	Ci or Li	EI 240	Ci or Li
$42,4 < D \leq 48,3$	2,2 – 14,2	EI 180		EI 180	
$48,3 < D \leq 60,3$	2,6 – 14,2	EI 180		EI 180	
$60,3 < D \leq 76,1$	3,1 – 14,2	EI 180		EI 180	
$76,1 < D \leq 88,9$	3,5 – 14,2	EI 180		EI 180	
$88,9 < D \leq 108,0$	4,0 – 14,2	EI 180		EI 180	
$108,0 < D \leq 159,0$	4,0 – 14,2	EI 120		EI 120	
$159,0 < D \leq 219,1$	4,5 – 14,2	EI 90		-	-

NON FLAMMABLE PIPES - penetration seals		
	Fig. 1 Penetration seal in wall $A \geq 150$ mm	Fig. 2 Penetration seal in floor $A \geq 150$ mm
		
* Installations placed at an angle of $45 \div 90^\circ$ to the partition, based on PN-EN 1366-3 standard 1 – wall/floor (A – thickness) 2 – non-flammable pipe 3 – mineral wool insulation with a density (ρ) of min 37 kg/m^3 4 – INTU FR MASTIC (details according to Table 1) 5 – mineral wool backfill material with minimum density $\rho \geq 40 \text{ kg/m}^3$.		

ELECTRICAL CABLES			
Installation type	Diameter [mm]	Fire resistance classification	
		WALL	FLOOR
Single cable	$\varnothing \leq 21$	EI 240	EI 120
Cables in bundle (made of cables $\varnothing \leq 21$)	$\varnothing \leq 100$	EI 90	EI 120

	Fig. 1 Penetration seal in wall $A \geq 150$ mm	Fig. 2 Penetration seal in floor $A \geq 150$ mm
		
1 – wall / floor (A – thickness); 2 – mineral wool $\rho \geq 40 \text{ kg/m}^3$ depth 15 mm; 3 – INTU FR MASTIC depth min 20 mm; 4 – single electric cable $\leq \varnothing 21$ mm or cables in bundle $\leq \varnothing 100$ mm.		