

DECLARATION OF PERFORMANCE

No: DoP 6/2024

1. Unique identification code of product-type:

INTU FR UNICOAT P

2. Intended uses:

The intended use of INTU FR UNICOAT P is to reinstate the fire resistance performance of flexible wall, rigid wall or rigid floor constructions, where they are penetrated by metal pipes or combustible pipes, cables, cable ladders, cable trays and conduits.

3. Manufacturer:

**INTUSEAL Sp. z o.o.
ul. Kineskopowa 1, 05-500 Piaseczno**

4. Authorized representative:

Not applicable

5. System or systems of Assessment and Verification of Constancy of Performance (AVCP):

System 1

6a. Harmonised standard:

Not applicable

Notified body or bodies:

Not applicable

6b. European Assessment Document:

EAD 350454-00-1104

European Technical Assessment:

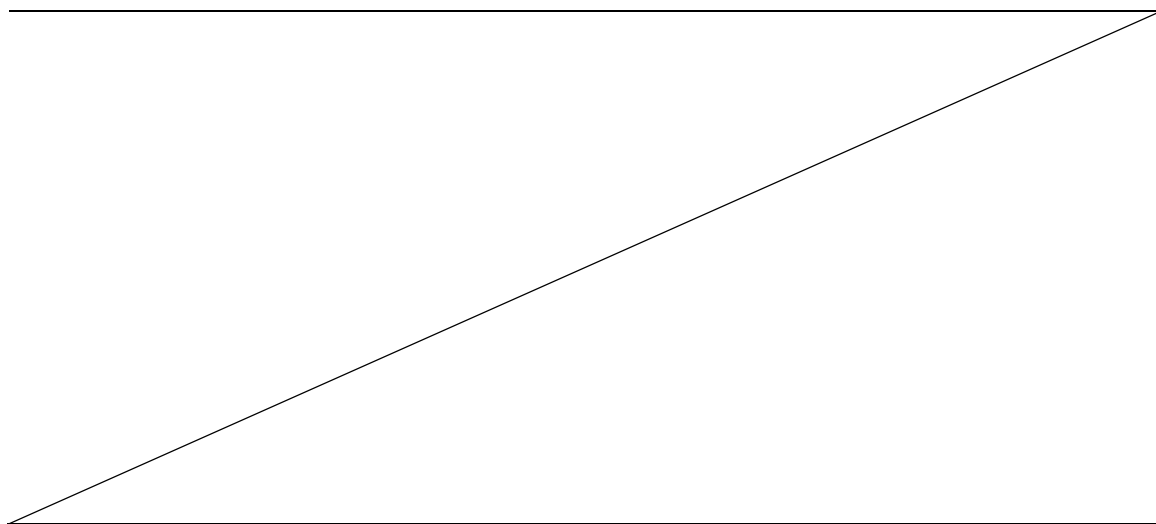
ETA-24/1047 of 19/12/2024

Technical Assessment Body:

ITB, ul. Filtrowa 1, 00-611 Warszawa

Notified body or bodies:

No. 1488



7. Declared performance:

Basic requirements	Performance characteristics
BWR 2 Safety in case to fire	
Reaction to fire	NPD
Resistance to fire	Tables B1. ÷ B11.

Table B1. Resistance to fire classification of metal pipes without insulation penetration seals in flexible or rigid wall thickness of: $t \geq 125$ mm, made with use of INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
copper	$D \leq 54$	$\geq 2,0$	-	2,0 x 450,0	EI 45 / E 120-C/U EI 45 / E 120-C/c
galvanized steel	$D \leq 42$	$\geq 1,5$	-	1,0 x 450,0	EI 90 / E 120-C/U EI 90 / E 120-C/C
			-	2,0 x 450,0	EI 120-C/U EI 120-C/C

Table B2. Resistance to fire classification of metal pipes without insulation penetration seals in rigid wall thickness of: $t \geq 100$ mm, made with use of INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
copper	$D \leq 54$	$\geq 2,0$	-	1,0 x 500,0	EI 120-C/U EI 120-C/C
galvanized steel	$D \leq 66,7$	$\geq 2,0$	-	1,0 x 500,0	EI 60 / E 120-C/U EI 60 / E 120-C/C
	$66,7 < D \leq 76,1$	$\geq 2,3$	-	1,0 x 500,0	
	$76,1 < D \leq 88,9$	$\geq 2,7$	-	1,0 x 500,0	
	$88,9 < D \leq 108,0$	$\geq 3,4$	-	1,0 x 500,0	
	$108,0 < D \leq 114,3$	$\geq 3,6$	-	1,0 x 500,0	
	$114,3 < D \leq 139,7$	$\geq 3,8$	-	1,0 x 500,0	
	$139,7 < D \leq 159,0$	$\geq 3,9$	-	1,0 x 500,0	
	$159,0 < D \leq 168,3$	$\geq 4,0$	-	1,0 x 500,0	

Table B3. Resistance to fire classification of metal pipes without insulation penetration seals in rigid wall thickness of: $t \geq 100$ mm, made with use of INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
galvanized steel	$D \leq 42,0$	$\geq 1,5$	-	1,0 x 500,0	EI 45 / E 120-C/U EI 45 / E 120-C/C
	$42,0 < D \leq 54,0$	$\geq 1,8$	-	1,0 x 500,0	
	$54,0 < D \leq 66,7$	$\geq 2,2$	-	1,0 x 500,0	
	$66,7 < D \leq 76,1$	$\geq 2,5$	-	1,0 x 500,0	
	$76,1 < D \leq 88,9$	$\geq 2,9$	-	1,0 x 500,0	
	$88,9 < D \leq 108,0$	$\geq 3,4$	-	1,0 x 500,0	
	$108,0 < D \leq 114,3$	$\geq 3,6$	-	1,0 x 500,0	
	$114,3 < D \leq 139,7$	$\geq 3,8$	-	1,0 x 500,0	
	$139,7 < D \leq 159,0$	$\geq 3,9$	-	1,0 x 500,0	
	$159,0 < D \leq 168,3$	$\geq 4,0$	-	1,0 x 500,0	

Table B3, cont. Resistance to fire classification of metal pipes without insulation penetration seals in rigid wall thickness of: $t \geq 100$ mm, made with use of INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
galvanized steel	$D \leq 88,9$	$\geq 1,5$	-	1,0 x 500,0	EI 60 / E 120-C/U EI 60 / E 120-C/C
	$88,9 < D \leq 108,0$	$\geq 3,4$	-	1,0 x 500,0	EI 45 / E 120-C/U EI 45 / E 120-C/C
	$108,0 < D \leq 114,3$	$\geq 3,6$	-	1,0 x 500,0	

Table B4. Resistance to fire classification of metal pipes without insulation penetration seals in rigid wall thickness of: $t \geq 100$ mm, made with use of double-sided INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
copper	$D \leq 28$	$\geq 1,0$	-	1,0 x 500,0	EI 90 / E 120-C/U EI 90 / E 120-C/U
galvanized steel	$D \leq 42$	$\geq 1,5$	-	1,0 x 500,0	EI 120-C/U EI 120-C/C

Table B5. Resistance to fire classification of stainless steel pipes without insulation penetration seals in rigid wall thickness of: $t \geq 150$ mm, made with use of double-sided INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Insulation thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
galvanized steel	$D \leq 42,0$	$\geq 1,5$	-	1,0 x 500,0	EI 120-C/U EI 120-C/C
	$42,0 < D \leq 54,0$	$\geq 1,8$	-	1,0 x 500,0	EI 45 / E 120-C/U EI 45 / E 120-C/C
	$54,0 < D \leq 66,7$	$\geq 2,2$	-	1,0 x 500,0	
	$66,7 < D \leq 76,1$	$\geq 2,5$	-	1,0 x 500,0	
	$76,1 < D \leq 88,9$	$\geq 2,9$	-	1,0 x 500,0	
	$88,9 < D \leq 108,0$	$\geq 3,4$	-	1,0 x 500,0	
	$108,0 < D \leq 114,3$	$\geq 3,6$	-	1,0 x 500,0	

Table B6. Resistance to fire classification of galvanized steel pipes with mineral wool local interrupted insulation (case LI) penetration seals in rigid wall thickness of: $t \geq 100$ mm, made with use of double-sided INTU FR UNICOAT P:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Mineral wool thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
galvanized steel	$D \leq 114,3$	$\geq 3,6$	20 x 200	1,0 x 500,0	EI 60 / E 120-C/U EI 60 / E 120-C/C
	$114,3 < D \leq 139,7$	$\geq 3,8$	20 x 200	2,0 x 500,0	EI 45 / E 120-C/U EI 45 / E 120-C/C
	$139,7 < D \leq 159,0$	$\geq 3,9$	20 x 200	2,0 x 500,0	
	$159,0 < D \leq 168,3$	$\geq 4,0$	20 x 200	2,0 x 500,0	

Table B7. Resistance to fire classification of galvanized steel pipes with PAROC Hvac Lamella Mat AluCoat mineral wool local interrupted insulation (case LI) penetration seals in rigid floor thickness of: $t \geq 150$ mm, made with use of INTU FR UNICOAT P paint:

Pipe material	Pipe diameter [mm]	Pipe wall thickness [mm]	Mineral wool thickness x length [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
galvanized steel	$D \leq 114,3$	$\geq 3,6$	20 x 200	1,0 x 500,0	EI 90 / E 120-C/U EI 90 / E 120-C/C
			20 x 350	1,0 x 500,0	EI 120-C/U EI 120-C/C
	$114,3 < D \leq 139,7$	$\geq 3,8$	20 x 200	2,0 x 500,0	EI 60 / E 120-C/U EI 60 / E 120-C/C
	$139,7 < D \leq 159,0$	$\geq 3,9$	20 x 200	2,0 x 500,0	
	$159,0 < D \leq 168,3$	$\geq 4,0$	20 x 200	2,0 x 500,0	

Table B8. Resistance to fire classification of cable penetration seals in flexible or rigid wall thickness of: $t \geq 100$ mm, made with use of INTU FR UNICOAT P paint and single INTU FR UNIBOARD 1S:

Type of cables	Cable diameter [mm]	INTU FR UNIBOARD 1S board layers x thickness [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
Small cables	$\varnothing \leq 21$	2 x 50	1,0 x 150,0	EI 90 / E 120
Medium cables	$21 < \varnothing \leq 50$	2 x 50	1,0 x 150,0	
Large cables	$50 < \varnothing \leq 80$	2 x 50	1,0 x 150,0	
Cable bundle	$\varnothing_{\text{cable}} \leq 21 \varnothing_{\text{bundle}} \leq 100$	2 x 50	1,0 x 150,0	
Non-sheathed cables (wires)	$\varnothing \leq 24$	2 x 50	1,0 x 150,0	
Small cables	$\varnothing \leq 21$	2 x 50	1,0 x 160,0	EI 120 ¹⁾
Cable bundle	$\varnothing_{\text{cable}} \leq 21$ $\varnothing_{\text{bundle}} \leq 100$	2 x 50	1,0 x 160,0	
Non-sheathed cables (wires)	$\varnothing \leq 24$	2 x 50	1,0 x 160,0	
¹⁾ valid only in case where the cable support does not pass through the penetration seal and / or in case where following cable carriers are passing through the seal: – perforated steel tray width of max. 500 mm and thickness of 1,5 mm, – non-perforated steel tray width of max. 500 mm and thickness of 1,5 mm, – steel ladder width of max. 200 mm and thickness of 1,0 mm, provided that the distance between adjacent cable trays / ladders in case of cable trays / ladders placed in one row is min 100 mm.				

Table B9. Resistance to fire classification of cable penetration seals in flexible or rigid wall thickness of: $t \geq 100$ mm, made with INTU FR UNICOAT P paint:

Type of cables	Cable diameter [mm]	INTU FR UNIBOARD 1S board layers x thickness [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
Small cables	$\phi \leq 21$	1 x 50	1,0 x 200,0	EI 60
Medium cables	$21 < \phi \leq 50$	1 x 50	1,0 x 200,0	
Large cables	$50 < \phi \leq 80$	1 x 50	1,0 x 200,0	
Cable bundle	$\phi_{\text{cable}} \leq 21 \quad \phi_{\text{bundle}} \leq 100$	1 x 50	1,0 x 200,0	
Non-sheathed cables (wires)	$\phi \leq 24$	1 x 50	1,0 x 200,0	
Medium cables	$21 < \phi \leq 50$	1 x 50	1,0 x 150,0	
Large cables	$50 < \phi \leq 80$	1 x 50	1,0 x 150,0	
Cable bundle	$\phi_{\text{cable}} \leq 21$ $\phi_{\text{bundle}} \leq 100$	1 x 50	1,0 x 150,0	
Non-sheathed cables (wires)	$\phi \leq 24$	1 x 50	1,0 x 150,0	

Table B10. Resistance to fire classification of cable penetration seals in rigid floor thickness of: $t \geq 150$ mm, made with use of INTU FR UNICOAT P paint and single INTU FR UNIBOARD 1S:

Type of cables	Cable diameter [mm]	INTU FR UNIBOARD 1S board layers x thickness [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
Small cables	$\phi \leq 21$	2 x 50	1,0 x 160,0	EI 120
Medium cables	$21 < \phi \leq 50$	2 x 50	1,0 x 160,0	
Large cables	$50 < \phi \leq 80$	2 x 50	1,0 x 160,0	
Cable bundle	$\phi_{\text{cable}} \leq 21 \quad \phi_{\text{bundle}} \leq 100$	2 x 50	1,0 x 160,0	
Non-sheathed cables (wires)	$\phi \leq 24$	2 x 50	1,0 x 160,0	

Table B11. Resistance to fire classification of cable penetration seals in rigid floor thickness of: $t \geq 150$ mm, made with use of INTU FR UNICOAT P paint and single INTU FR UNIBOARD 2S:

Type of cables	Cable diameter [mm]	INTU FR UNIBOARD 2S board layers x thickness [mm]	INTU FR UNICOAT P paint thickness x length [mm]	Fire resistance class
Small cables	$\phi \leq 21$	1 x 50	1,0 x 200,0	EI 60 / E 90
Medium cables	$21 < \phi \leq 50$	1 x 50	1,0 x 200,0	
Large cables	$50 < \phi \leq 80$	1 x 50	1,0 x 200,0	
Cable bundle	$\phi_{\text{cable}} \leq 21 \quad \phi_{\text{bundle}} \leq 100$	1 x 50	1,0 x 200,0	
Non-sheathed cables (wires)	$\phi \leq 24$	1 x 50	1,0 x 200,0	

BWR 3 Hygiene, health and the environment	
Air permeability	NPD
Water permeability	NPD
Content, emission, release of dangerous substances	NPD
BWR 4 Safety and accessibility in use	
Mechanical resistance and stability	NPD
Resistance to impact/movement	NPD
Adhesion	NPD
Durability	Z ₂
BWR 5 Protection against noise	
Airborne sound insulation	NPD
BWR 6 Energy economy and heat retention	
Thermal properties	NPD
Water vapour permeability	NPD

8. Appropriate technical documentation or special technical documentation:

Not applicable

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Name: Michał Szykowski

Position: President of the Management Board

Piaseczno, 30.12.2024

Place, date


Signature