Incaline®
Technical specifications (1)

incafin® NV
protective linings and coatings

Property	Tested according to standard	Result for 3 mm layer thickness	BRL-K 19006/19004 requirement
Colour	N/A	Default colour beige	
Odour	N/A	None	
Flexural strength	ASTM D790-NBN-EN 196-1	Average 25 MPa	
Compressive strength	ASTM D790-NBN-EN 196-1	Average 44 MPa	
Tensile strength	NEN-ISO-ISO 6892 (previously NBN10002-1)	3 mm test pieces 6 N/mm² average 6 mm test pieces 8N/mm² average 12 mm test pieces 14N/mm² average	
Scratch resistance / Wear resistance	DIN ISO 1518-1 NBN-B15-223	After 1000 full rotations 81 mg 1.2 mm average at 3000 m wear path	≤ 120 mg
Permeability to water	NBN B15.222	No water absorption at 7 bar and 3 mm layer thickness	
Impact resistance	NEN 5335	No damage to the concrete substrate	
Wear resistance	ASTM D4060	Penetration depth at 50 N 0,34 mm	≤ 1,0 mm
Shore hardness	DIN ISO 868	79 D	
Water absorption	NEN-EN ISO 2812-2	23 °C/100 days 1,8%	≤ 20%
Water resistance **Adhesion strength Vapour phase** **Adhesion strength Liquid phase** **Difference**	 NEN-EN ISO 2812-2 NEN-EN ISO 2812-2 NEN-EN ISO 2812-2	 5,6 N/mm² 5,3N/mm² 5,4%	 ≤ 20%
Chemical resistance	NEN-EN ISO 2812-2	pH3–pH13 pH1–pH14, possibly dependent on medium	
Operating temperature	N/A	-20° to +80°C for water. May vary for chemicals; available on request.	
Surface	NEN-EN ISO 2812-2	Semi-smooth surface/no blistering, slight colour variation permissible depending on light or chemical stress.	
Adhesion	CUR PB 20 Method 1	Exceeds substrate cohesion. Fracture in mineral substrate > 1.5 N/mm²	
Elasticity modulus	N/A	> 10 years of use at 900 N/mm²	
Dielectric properties	At 3 mm layer thickness At 6 mm layer thickness At 6 mm layer thickness	With 25 x 25 cm electrode up to 20 kV With 10 x 10 cm electrode up to 35kV With 25 x 25 cm electrode up to 25kV	

Incaline®

Technical specifications (2)

Property	Tested according to standard	Result for 3 mm layer thickness		BRL-K 19006/19004 requirement
VOC-concentration	Analysis using headspace GC/MS	0,004 %		
Heavy metals	Analysis using IC-ICP-HRMS	None		
Chromium-6	Analysis using IC-ICP-OES	None		
	PTV 562	Soon to receive BENOR certification		
Chemical resistance	NEN-EN ISO 2812-2			
Medium		H_2SO_4 (pH3)	NaOH (pH13)	
Appearance		No blistering, slight change in colour		
Initial thickness		4,29 mm |	4,38 mm	
After compaction		4,10 mm |	4,43 mm	
Thickness variation		-4,40 % |	1,3%	
Adhesion strength Reference		5,6 N/mm²		
Adhesion strength after compaction		5,2N/mm²	5,2 N/mm²	
Difference		7%	7%	≤ 20,0
Processing time	20 minutes after mixing components at 20°C.			
Curing time	7 days to full chemical resistance. Normally load-bearing after 24 hours, depending on temperature and humidity. Certain chemical stressors can necessitate a longer curing time. At lower temperatures, environmental conditions may be adapted artificially.			

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