

AKS Lining Systems (Pty) Ltd

Specialist in high performance concrete protection liner



Technical Data:

Anti-Slip

Black UV Stabilised High Density Polyethylene Cast-in Liner

Anti-Slip offers a "maximum-security" system for the protection of concrete structures and elements against the attack of aggressive liquids or gases, with the additional benefit of a High Friction, Anti-Slip surface created by the 1,5mm high profile. This "state of the art" system offers many benefits, including:

- outstanding chemical resistance
- excellent weldability
- high resistance to mechanical damage
- tolerance of limited cracking of the concrete substrate
- long life / low maintenance

Properties	Test Method	Unit	Value	Frequency
Thickness variance	ASTM D 5199	%	+/- 10%	20 linear metre
Density	ASTM D 1505/D 792	g/ml	≥0,940	30 000kg
Carbon black content	ASTM D 1603	%	2 to 3	per 10 000m ²
Carbon black dispersion	ASTM D 5596	Category	1 or 2	per 10 000m ²
ESCR (NCTL)	ASTM D 5397	Hours	>300	per formulation
OIT	ASTM D 3895	Minutes	>100	per 90 000kg
Coefficient of linear expansion	ASTM E 831	cm/cm/degC	1.1 - 1.4E-4	per formulation
Length of knobs (nom)		mm	12	20 linear metre
Knobs per m ²		#/m ²	1230	fixed
Tensile properties	ASTM D 6693-04			200 linear metre
• yield stress *		MPa	15 *	
• break stress *		MPa	27 *	
• yield elongation *		%	12 *	
• break elongations*		%	700 *	
Shore hardness	DIN 53505	N/mm ²	>50	per formulation
Tear resistance	ASTM D 1004	N/mm (t)	120	batch
Puncture resistance	ASTM D 4833	N/mm (t)	300	batch
Dimensional stability	ASTM D 1204	% change	< 2	per shift
Water absorption	ASTM D 570	%	0.0009	per formulation

* denotes measured on smooth portion of AKS

For further information on this product, please contact us at the following address:

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Technical data refers to average values, measured across the manufactured width of the sheet. This information is expressed as a guide and based on values measured in our laboratory as well as independent laboratories. The quoted values are based on specific resin properties and are subject to change without prior notice.