

# Technical Data Sheet

## WILOTEKT PROTECTION MEMBRANE Wilotekt®-Plus Structural Waterproofing System

<b>1. Description</b>	Wilotekt protection membrane is a stabilised polyester reinforced SBS elastomeric modified bitumen waterproofing membrane. The membrane is finished on both surfaces with sand.
<b>2. Use</b>	Top layer in the application of Wilotekt-Plus® composite structural waterproofing. For use on inverted roof systems under a variety of finishes, such as ballast, paving (bedded or on Axter paving supports), living roofs, podiums, terraces and car parks.
<b>3. Application Method</b>	<p>Wilotekt protection membrane is designed to be unrolled and laid into heated Wilotekt compound forming a fusion bonded system.</p> <p>Installation details of the Wilotekt-Plus system are shown in the Axter Wilotekt-Plus Brochure available from: <a href="https://axter.co.uk/downloads">axter.co.uk/downloads</a>.</p> <p>The Wilotekt-Plus system must be installed by Axter accredited installers who have completed an upskilling course in this system. Information on Axter accredited installer schemes is available here: <a href="https://axter.co.uk/installer-membership">axter.co.uk/installer-membership</a>.</p>
<b>4. Storage</b>	Rolls to be stored upright and away from heat. Rolls to be kept dry prior to application of the system. Storage temperature range is +5°C to +30°C

**5. Composition**

(Indicative).

Reinforcement (g/m <sup>2</sup> )	Stabilised polyester	180
Binder (g/m <sup>2</sup> )	SBS elastomer	4000
Surface finish (g/m <sup>2</sup> )	Sand	300
Under surface finish (g/m <sup>2</sup> )	Sand	300

CHARACTERISTICS				PERFORMANCE			
		STANDARD (BS)	UNITS	VALUE	TOLERANCE		
					MIN	MAX	
Dimensions	Length x width	EN 1848-1	m	10 x 1	-1%		
	Nominal roll weight		kg	48.8			
	Straightness		-	Pass			
	Thickness (finished product)	EN 1849-1	mm	3.85	3.70	4.00	
Visible defects	New product	EN 1850-1	-	None			
	After ageing EN 1297		-	N/A			
Adhesion of granules		EN 12039	%	N/A	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	N/A	-	-	
	Cross direction			N/A	-	-	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50mm	690	400	820	
	Cross direction			540	350	680	
Tensile properties : elongation	Longitudinal	EN 12311-1	%	40	30	50	
	Cross direction			50	40	60	
Peel resistance of joint	Maximum force	Selvage	EN 12316-1	N/50mm	N/A	-	-
		End joint			N/A	-	-
	Average force	Selvage			N/A	-	-
		End joint			N/A	-	-
Shear resistance of joint	Maximum force	Selvage	EN 12317-1	N/50mm	N/A	-	-
		End joint			N/A	-	-
Flexibility at low temperature	Surface	EN 1109	°C	-16	≤		
	Under surface			-16	≤		
Flow resistance at elevated temperature	New product	N 1110	°C	100	≥		
	After ageing to EN 1296			N/A	-		
Resistance to impact		EN 12691 (A)	mm	600	≥		
Resistance to static loading		EN 12730 (A)	kg	20(A) / 20(B)	≥		
Dimensional stability		EN 1107-1	%	0.5	≤		
Form stability under cyclic temperature change		EN 1108	%	N/A			
Water vapour transmission properties	New product	EN 1931	-	μ=20000	≥		
	After ageing to EN 1296		-	N/A	≥		
Watertightness	New product	EN 1928	-	Pass	<10kPA		
	After ageing to EN 1296		-	N/A			

CHARACTERISTICS			PERFORMANCE		
	STANDARD (BS)	UNITS	VALUE	TOLERANCE	
				MIN	MAX
Watertightness after stretching at low temperature	EN 13897	%	N/A		
Reaction to fire	EN 13501-1	-	NPD		
<b>Resistance to root penetration</b> Refer to BBA Certificate 22/6518 Section 3.4 and ETA 03-0049 Annex A1.  Documents are available from: <a href="http://www.axter.co.uk/downloads">www.axter.co.uk/downloads</a>	EN 13948	-	N/A		
Dangerous substances	-	-	None		

Pallet size	20 rolls/pallet
Approximate coverage	10m <sup>2</sup> /roll
Packaging	Rolls are delivered on wooden pallets which have protective shrink wrapping. The tape on each individual roll must be removed before use.
Handling / PPE	<p>Rolls weighing more than 25kg are to be handled either using mechanical handling machinery or manual gripping tools that limit the load to 25kg per person. Anyone handling this product should be aware of suitable working techniques, gestures and postures.</p> <p>Operatives should use appropriate personal protective equipment, including protective gloves.</p>
Disposal	This product is non hazardous. Any membrane waste will be minimal and should be disposed of in accordance with local regulations. Used waste and packaging should be processed according to local regulations.
Re-use	When installed as part of a complete hot melt waterproofing system, the product becomes an integral part of the structure that cannot be removed for processing and is disposed of at the end of life of the structure.
Additional documents	Axter Wilotekt-Plus Brochure
Certification	BBA Certificate 22-6518 ETA 03-0049 ISO 9001-2015 Certificate No. 1996/5190.13 ISO 14001-2015 Certificate No. 2011/40665.5
Safety data sheet	SDS-Axter Bitumen Waterproofing Membranes V5 17/12/2019.

The above documents are available at: [www.axter.co.uk/downloads](http://www.axter.co.uk/downloads)

NA=not applicable due to use of product.

NPD=no performance determined

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