

# Technical Data Sheet

## WILOTEKT PROTECTION MEMBRANE

### Wilotekt®-Plus Structural Waterproofing System

<b>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>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>Application method</b>	Wilotekt membrane is designed to be unrolled and laid into heated Wilotekt compound forming a fusion bonded system.	
<b>Storage</b>	Rolls to be stored upright and away from heat. Rolls to be kept dry prior to application of the system.	
<b>Composition</b>	(indicative)	

<b>Reinforcement (g/m<sup>2</sup>) :</b>	Stabilised polyester	180
<b>Binder (g/m<sup>2</sup>) :</b>	SBS elastomer	3,900
<b>Surface finish (g/m<sup>2</sup>) :</b>	Sand	300
<b>Under surface finish (g/m<sup>2</sup>) :</b>	Sand	300

Characteristics		Standards (BS)	Units	Value	Tolerance		
					Min	Max	
Dimensions	Length	EN 1848-1	m	10.0	-1%		
	Width		m	1	-1%		
	Straightness		-	Pass			
	Nominal roll weight		kg	48.8			
	Thickness (selvedge)	EN 1849-1	mm	3.85	3.70	4.00	
Visible defects	New product	EN 1850-1	-	None			
	After ageing to EN 1297		-	NA			
Adhesion of granules		EN 12039	%	NA	-	-	
Resistance to tearing (nail shank)	Longitudinal	EN 12310-1	N	190	150	230	
	Cross direction			230	170	290	
Tensile properties: maximum tensile force	Longitudinal	EN 12311-1	N/50 mm	700	400	900	
	Cross direction			550	400	750	
Tensile properties: maximum elongation	Longitudinal	EN 12311-1	%	40	30	50	
	Cross direction			50	40	60	
Peel resistance of joint	Maximum force	EN 12316-1	N/50mm	Selvedge	NA	-	-
				End joint	NA	-	-
	Average force			Selvedge	NA	-	-
				End joint	NA	-	-
Shear resistance of joint	Maximum force	EN 12317-1	N/50mm	Selvedge	NA	-	-
				End joint	NA	-	-
Flexibility at low temperature	Surface	EN 1109	°C	-16	≤		
	Under surface			-16	≤		
Flow resistance at elevated temperature	New product	EN 1110	°C	100	≥		
	After ageing to EN 1296			NA	-		
Resistance to impact		EN 12691	mm	1000	≤		
Resistance to static loading		EN 12730 (A)	kg	20(A) / 5(B)	≥		
Dimensional stability		EN 1107-1	%	0.3	≤		
Form stability under cyclic temperature change		EN 1108	%	NA			

Characteristics		Standards (BS)	Units	Value	Tolerance	
					Min	Max
Water vapour transmission properties	New product	EN 1931	-	$\mu=20000$		
	After ageing to EN 1296		-	NA		
Watertightness	New product	EN 1928	-	Pass	<60kPa	
	After ageing to EN 1296		-	Pass		
Watertightness after stretching at low temperature		EN 13897	%	NA		
Reaction to fire		EN 13501-1	-	PND		
Resistance to root penetration		EN 13948	-	NA		
Dangerous substances consult: <a href="http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm">http://europa.eu.int/comm/enterprise/construction/internal/dangsub/dangmain.htm</a>		-	-	None		

NA=not applicable due to use of product. PND=performance not determined.

Wilotekt®-Plus Accreditation: European Technical Assessment ETA 03/0049.

The manufacturer reserves the right to modify, at any time, the characteristics of this product.